PROJECTED DEFENSE PURCHASES: DETAIL BY INDUSTRY AND STATE

Calendar Years 1997 through 2003



June 1997

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FOREWORD

Projected Defense Purchases: Detail by Industry and State is issued by the Office of the Secretary of Defense (OSD). The estimates presented in the report are produced by the Economic and Manpower Analysis Division, Office of the Director for Program Analysis and Evaluation, Office of the Secretary of Defense.

The report provides projections of direct and indirect (or defense-related) purchases from 50 major manufacturing industries, and estimates of direct and indirect defense spending in each state. An introduction presents a brief overview of the definitions, budgetary concepts, and expenditure categories used in developing the estimates, and offers some guidelines for interpreting them. The tabular material is divided into three sections:

Section I: Summary Tables – Industry Expenditures and Employment,
Individual States and Entire United States

Section II: Projections for Selected Industries

Section III: Individual State Projections

Descriptions of table formats accompany the projections.

Additional copies of this report may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. A feedback form for comments is at the end of the report.

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Reader's Note

With this edition of *Projected Defense Purchases: Detail by Industry and State*, the Department of Defense inaugurates a new version of the input-output model used to estimate defense and defense-related expenditures. The revisions to the model affect the estimates for specific industries, in large part because the industry definitions have changed as described below. In particular:

- The input-output model now includes 320 industries and is maintained by Interindustry Forecasting at the University of Maryland (INFORUM), replacing the 429-industry model that was maintained by DRI/McGraw-Hill. Because fewer industries are represented in the model, the definitions of some industries have changed. (The differences are largest in the agriculture and service sectors.)
- The model now reflects the standard industrial classification (SIC) system promulgated by the Office of Management and Budget in 1987, rather than the 1982 SIC system, which underlay previous projections. This change also affects the definition of industries, particularly in the electronics industry.

Both of these modifications affect projections for individual industries. For example, one of the largest industrial sectors in the earlier projections was the Radio and Television Communications Equipment sector, which included electronic sensors used in many defense applications. Because the 1987 industrial classification system contains more detail on electronics sectors, it is now possible to break out purchases of sensors from the remainder of radio and television communications equipment, and to produce projections for this individual industry.

In addition, the industries from which research and development purchases are made can now be better identified. Whereas funding for bench research and basic exploration was formerly allocated to the major weapons-producing sectors (e.g., aircraft, missiles, radio and TV equipment, etc.), it now is allocated to the research laboratory, engineering, and architectural services industries.

The restructuring was so substantial that the model has been renamed. It is now called the Defense Employment and Purchases Projection System, or DEPPS. The projections presented in this report should not be compared with estimates generated by the former model, for states or for industries.

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INTRODUCTION AND HIGHLIGHTS

This report presents estimates of defense purchases during calendar years 1997-2003 from 50 major industries that are major defense suppliers. The report also provides projections of defense-related employment and of defense and defense-related spending for each of the 50 states and the District of Columbia during 1997-2003. The estimates are based on the President's budget submission of February 1997, and on the geographic distribution of the major components of defense spending in the recent past. A description of the model and data used to generate the estimates may found in supporting documentation.¹

The figures reported here are projections; they do not necessarily reflect what actual defense expenditures will prove to be in various industries or states in future years. Purchases from particular industries will depend upon the size and composition of the defense budget enacted by the Congress; the location of purchases will be determined not only by the level of defense spending, but also by the location of industries and by competition among firms within industries, both for prime contracts and for subcontracts.² The projections are therefore intended to serve as benchmarks: they describe the future pattern of defense and defense-related expenditures, assuming that each state's shares of the various components of defense activity remain as they were in the recent past.

Since the last set of projections was published, the input-output model used to produce them has been completely rebuilt, and the definitions of industries for which projections are reported have changed. (The new projections divide the economy into 320 industries, rather than the 429 industries employed in the previous model.) The restructured model will produce more accurate and useful projections; the changes are significant enough to render comparisons with past projections inappropriate, for states as well as industries.

Forthcoming from Economic and Manpower Analysis Division, Office of the Director, Program Analysis and Evaluation, Office of the Secretary of Defense, Room 2D311, Pentagon, Washington, D.C. 20301-1800, telephone number (703) 697-2999.

The Directorate for Information Operations and Reports in the Washington Headquarters Services publishes comprehensive data on prime contract awards and personnel expenditures, by state, in a volume entitled Atlas/State Data Abstract for the United States. The edition covering fiscal year 1996 is available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.

Definitions and Coverage

The estimates presented in the following sections consider both "direct" and "indirect" defense expenditures. Direct defense expenditures are those that the Department of Defense (DoD) itself makes. Examples include purchases of goods and services, as well as military and civilian pay.

Indirect (or defense-related) expenditures, in contrast, represent purchases — generated throughout the economy — of items used to produce goods bought by DoD. That is, they reflect the costs of materials, tools, and parts that prime contractors buy from their suppliers in order to perform work for which DoD has contracted. Those sales, in turn, trigger subsequent rounds of transactions, as subcontractors purchase goods and services from their major suppliers and those firms place orders with companies at lower tiers of the production chain. It is to this sequence of purchases — of goods and services from subcontractors and lower-tier suppliers —that the term "indirect defense purchases" applies.

"Indirect defense purchases resulting from direct pay," shown in the state-level tables in Section III, refer to the production of goods and services consumed by DoD's civilian and military employees. Estimates of these expenditures are included in the statewide tables because the concept has been of interest to planning agencies and others concerned with local economic development. The methods used to generate these estimates are viewed as experimental, however, and are still under development. Indirect defense purchases resulting from direct pay are *not* included in the industry estimates reported in Section II.

The employment estimates include DoD civilian employment and employment resulting from direct and indirect DoD purchases of goods and services. Employment generated by indirect purchases resulting from direct pay (i.e., by personal consumption expenditures) is *not* included in the estimates.

Budget Concept Employed. The DEPPS projections are expressed in terms of outlays. Outlays represent disbursements of funds made during the course of a year. In contrast, budget authority is the amount of money that Congress authorizes DoD to obligate in any given year. Budget authority differs from outlays in that contractual obligations (which must be within the limits set by budget authority) often call for payments to be spread over a period of years, as work is completed. (Budget authority for RDT&E and procurement projects, in particular, tends to be disbursed over several years.) During periods of budget growth, therefore, budget authority tends to exceed outlays in any given year.

Coverage. The federal budget is divided into a number of sections (called "functional categories"), each containing programs serving a common purpose. National security-related programs are grouped into Functional Category 050 (National Defense). This category includes all of the Defense Department's military programs plus national security programs administered by other federal departments, such as the Department of Energy. It excludes nonmilitary

programs managed by the Department of Defense (for example, highway bridge inspection projects conducted by the Army Corps of Engineers).

The DEPPS projections are based on a narrower budget grouping, Functional Category 051 (Department of Defense, Military). This category includes all of the Defense Department's military programs, but excludes national security programs administered by other agencies and DoD programs serving civil functions (principally public works projects of the U.S. Army Corps of Engineers). The projections also include disbursements of military retirement pay.

The defense budget (defined here to include only those programs falling within Functional Category 051) is partitioned into five major accounts: military personnel; operations and maintenance (O&M); procurement; research, development, test, and evaluation (RDT&E); and military construction. The titles of these accounts are reasonably descriptive of the types of expenses they cover:

- The *military personnel* account covers the pay of active-duty service members and reservists as well as some other personnel-related expenses, such as permanent change-of-station travel and purchases of military uniforms. Also included in this account is DoD's share of the government's annual payments into the Military Retirement Fund (see below).
- The *O&M* account funds the day-to-day operations of the defense establishment. Money from this account goes to purchase fuel and other consumable items and to pay all but a small share of DoD's civilian work force.
- The *procurement* account covers purchases of weapons and equipment, and other military capital goods.
- The *RDT&E* account pays for the development and testing of new military systems, and for other research activities and associated civilian pay.
- The *military construction* account covers the cost of constructing military facilities and of providing housing for military personnel and their dependents.

The DEPPS projections include disbursements of military retirement pay from the Military Retirement Fund (Functional Category 602 in the *Budget of the United States Government*). This trust fund receives payments from the military personnel account of the defense budget (i.e., from Functional Category 051) as well as from the general fund of the federal budget; the balance in the Military Retirement Fund is invested in U.S. government securities and earns interest. Currently, annual disbursements from the Military Retirement Fund are larger than DoD's annual payments into it.

The DEPPS projections include all outlays from the DoD military personnel account except payments into the Military Retirement Fund. Military pay and annuity payments to military retirees have different geographical patterns; accordingly, the projections use two different, historically-based distribution rules — one for military pay and one for retirement pay. Because the DEPPS projections include disbursements of retirement pay, the summations across states of direct defense purchases slightly exceed outlays from Category 051.

Highlights of the Projections

The composition of projected defense purchases is quite different from the composition of purchases in the nondefense economy. Figure 1 presents information on the composition of projected defense and nondefense final purchases in 1998, excluding salaries. A large proportion of defense purchases — 55 percent — are made from manufacturing industries. In contrast, only about 34 percent of nondefense final purchases are made from the manufacturing sector of the economy. Services make up about 40 percent of defense final purchases, but about 60 percent of nondefense final purchases. (These are non-labor purchases; if DoD personnel costs are included, the share of purchases from manufacturing industries is roughly equal to the economywide share.)

Figure 2 presents information on the composition of estimated defense and nondefense indirect purchases — the sales of tools, materials, and supplies used as intermediate goods in the production process. Indirect defense purchases more nearly resemble their nondefense counterparts than do direct defense purchases; manufacturing accounts for about 41 percent of projected defense indirect purchases, and for about 40 percent of projected nondefense indirect purchases. Services account for half of projected defense and nondefense indirect purchases.

The first table in Section I of this report lists the 50 manufacturing industries with the largest (direct plus indirect) projected defense production. While some of these industries are armaments or defense-oriented (shipbuilding, tanks and tank components, aircraft, and guided missiles, for example), a significant share of defense purchases are made directly or indirectly from industries not so obviously oriented toward defense activities (e.g., electronics, blast furnaces and steel mills, motor vehicle parts, industrial controls, and telephone and telegraph equipment).

Defense-Related Employment. Defense-related civilian employment (including the civilian work force of the Department of Defense) represents about 2 percent of projected total U.S. civilian employment. The composition of defense-related civilian employment in 1998 differs somewhat from that of nondefense employment. The differences reflect the manufacturing intensity of defense purchases, as well as specific employment patterns of the individual industries from which defense purchases are made.

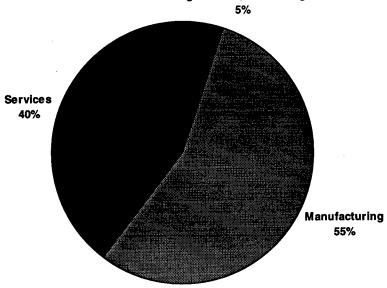
Occupations primarily associated with manufacturing industries (e.g., precision production, craft, and repair) account for a large share of defense-related employment, while

Figure 1.

Composition of Defense and Non-Defense Purchases for 1998



Construction,
Agriculture, and Mining



Direct Nondefense Purchases

Construction,
Agriculture, and Mining

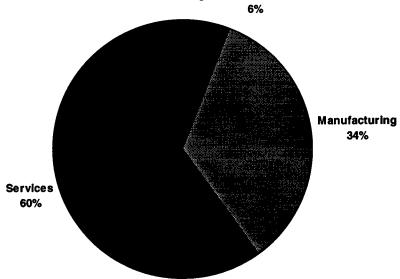
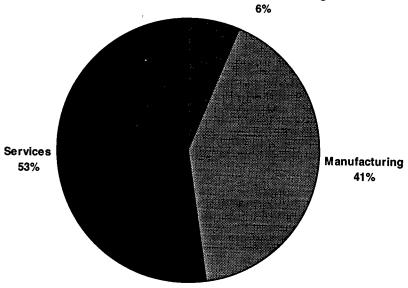


Figure 2.

Composition of Defense and Non-Defense Purchases for 1998

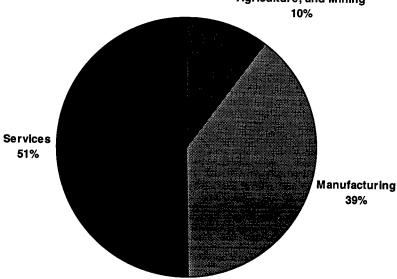
Indirect Defense Purchases

Construction,
Agriculture, and Mining



Indirect Nondefense Purchases

Construction,
Agriculture, and Mining



service and agriculture workers account for a large proportion of nondefense employment (see Figure 3). Engineering workers also account for a somewhat larger share of defense-related employment (7 percent) than they do of nondefense employment (1 percent). More detailed tabulations of defense-related employment (including a breakout of engineering and scientific personnel by specialty) are provided in Section I.

Defense Expenditures by State. Table 1 presents estimates of direct, indirect, and total (direct plus indirect) per capita defense expenditures in 1998 for each of the nine U.S. census divisions, and for the United States as a whole. For each region and each expenditure category, the table provides both an estimate for the census region and a range of estimates corresponding to the upper and lower bounds of the estimates for the individual states within the region.

The geographic distribution of defense expenditures reflects both the distribution of military personnel and DoD civilian employees, and that of the industries that make defense goods. While New England, for example, ranks seventh among the nine regions in defense pay per capita, it ranks third in total projected defense purchases and third in total projected direct expenditures.

The dispersion within regions is large relative to the dispersion across regions. For example:

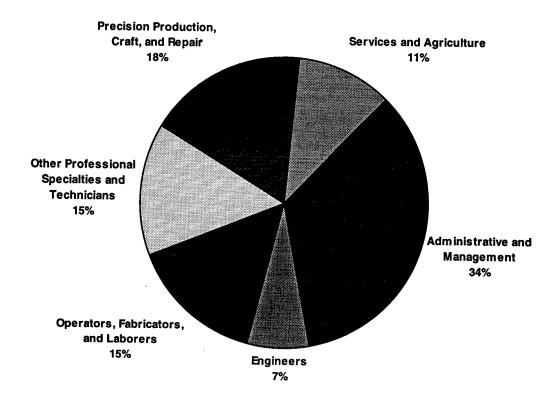
- Six of the nine regions contain one or more states in which total projected defense expenditures (direct and indirect) exceed the national average.
- All nine regions contain at least one state in which total projected defense expenditures are less than 60 percent of the national average, and at least one state in which total projected defense expenditures are greater than 60 percent of the national average. At the same time, six regions contain at least one state in which total projected defense expenditures are less than 50 percent of the national average, and seven regions contain at least one state in which total projected defense expenditures are greater than 90 percent of the national average.

The DEPPS projections describe the pattern of defense and defense-related expenditures, assuming that the geographic distribution of the various components of defense activity remains what it has been in recent years. The actual course of completion of defense contracts may produce a future geographic pattern that differs from historical distributions.

Figure 3.

Composition of Civilian Employment for 1998

Defense-Related Employment



Nondefense-Related Employment

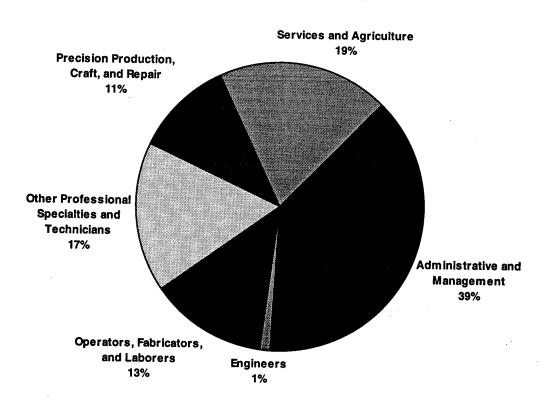


Table 1. Estimated Defense Expenditures Per Capita, 1998 (By region, in 1998 dollars)

		Direct			
Region	Pay	Purchases	Total	Indirect	Total
New England	294	851	1145	807	1952
	(163 - 503)	(145 - 1336)	(313 - 1827)	(562 - 1410)	(945 - 2605)
Mid-Atlantic	175	383	558	554	1112
	(102 - 217)	(301 - 523)	(426 - 729)	(462 - 635)	(888 - 1363)
South Atlantic	909	942	1851	975	2826
	(146 - 2641)	(79 - 3388)	(226 - 6029)	(461 - 2313)	(686 - 8342)
East North Central	161	249	410	553	963
	(87 - 243)	(112 - 408)	(198 - 560)	(467 - 633)	(687 - 1193)
West North Central	354	424	778	941	1719
	(91 - 709)	(188 - 827)	(280 - 1169)	(402 - 2784)	(682 - 3734)
East South Central	443	540	983	642	1625
	(216 - 559)	(228 - 988)	(560 - 1515)	(535 - 778)	(1096 - 2105)
West South Central	456	386	842	732	1574
	(313 - 719)	(181 - 552)	(493 - 1014)	(529 - 865)	(1022 - 1851)
Mountain	494	394	888	720	1608
	(299 - 723)	(112 - 1063)	(412 - 1660)	(476 - 853)	(939 - 2474)
Pacific	927	861	1788	895	2683
	(162 - 1982)	(58 - 2247)	(220 - 3619)	(492 - 1258)	(711 - 4877)
United States	507	589	1096	790	1886
	(87 - 2641)	(58 - 3388)	(198 - 6029)	(402 - 2784)	(682 - 8342)

The numbers in parentheses reflect the lower and upper bounds of the estimates for individual states in the regions. NOTES:

New England: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont

Mid-Atlantic: New Jersey, New York, Pennsylvania

South Atlantic: Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina,

South Carolina, Virginia, West Virginia

East North Central: Illinois, Indiana, Michigan, Ohio, Wisconsin

West North Central: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota

East South Central: Alabama, Kentucky, Mississippi, Tennessee West South Central: Arkansas, Louisiana, Oklahoma, Texas

Mountain: Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming

Pacific: Alaska, California, Hawaii, Oregon, Washington

Limitations of the Projections

The projections of defense purchases in Section I show direct and indirect purchases from various industries. They attempt to include all defense purchases, whether or not the purchases are made domestically.

By contrast, the state-level projections include only purchases and pay estimated to be made in the 50 states and the District of Columbia. They exclude expenditures made abroad or in U.S. territories, the pay of military personnel stationed on ships in foreign waters, and expenditures for imported goods. In order to factor out such expenditures, historical data showing the distribution of military personnel are used and an assumption is made about the level of defense imports. Specifically, it is assumed that, for the products of any given industry, imports constitute the same share of defense purchases as they do of civilian purchases. But because the Defense Department is required to channel most of its purchases to domestic firms, and because defense purchases often represent specialized products, the percentage of defense purchases accounted for by imports may be lower than this assumption suggests. To the extent that this is the case, the projections will underestimate the proportion of defense expenditures occurring in the United States.

Comparisons With Previous Estimates

The input-output model used to generate estimates for this report has been rebuilt since the document was last issued. The revisions to the model affect results for specific industries. In particular:

- The input-output model now includes 320 industries and is maintained by Interindustry Forecasting at the University of Maryland (INFORUM), replacing the 429-industry model that was maintained by DRI/McGraw-Hill. Because fewer industries are represented in the model, the definitions of some industries have changed. (The differences are largest in the agriculture and service sectors.)
- The model now reflects the standard industrial classification (SIC) system promulgated by the Office of Management and Budget in 1987, rather than the 1982 SIC system, which underlay previous projections.

Both of these changes affect projections for individual industries. For example, one of the largest industrial sectors in the earlier projections was the Radio and Television Communications Equipment sector, which included electronic sensors used in many defense applications. Because the 1987 industrial classification system contains more detail on electronics sectors, it is now possible to break out purchases of sensors from the remainder of radio and television communications equipment, and to produce projections for this individual industry.

In addition, the industries from which R&D purchases are made can now be better identified. Whereas funding for bench research and basic exploration was formerly allocated to the major weapons-producing sectors (e.g., aircraft, missiles, radio and TV equipment, etc.), it now is allocated to the research laboratory, engineering, and architectural services industries.

Given the significance of these changes, the DEPPS projections should not be compared with estimates generated by the former model, for states or for industries.

SECTION I: SUMMARY TABLES – Industry Expenditures and Employment, Individual States and Entire United States

The summary tables that follow provide an overview of estimated defense expenditures and employment. The first table presents estimates of total defense purchases from the 50 manufacturing industries leading in defense production in 1998. The estimates shown include both direct and indirect purchases. The second table presents estimates of defense-related employment by major occupational category, while the third table provides more detailed estimates of defense-related employment of engineers and scientists.

The remaining five tables present state-level information:

- The first three state-level tables present estimates of *direct* defense expenditures, first in the aggregate and then for selected budget accounts. The first table shows outlays (for purchases and pay) projected to be made in each state during each year of the forecast period. (The estimates assume that state shares of the underlying components of pay and purchases remain at recent levels.) The next two tables break out the statewide estimates by budget category, the first showing outlays arising from the procurement and RDT&E accounts and the second showing outlays resulting from the remaining accounts.
- The last two state-level tables present estimates of *indirect* defense expenditures. The first table shows indirect expenditures arising from purchases made by the Department of Defense; the second identifies estimated expenditures arising from the wages and salaries of DoD personnel and from military retirement pay.

Projected Defense Purchases from Fifty Manufacturing Industries Leading in Defense Production in 1998

Ind#	Supplying Industry	1997	1998	1999	2000	2001	2002	2003
237	Aircraft and Missile Parts and Auxiliary Equipment, n.e.c.	10,663	10,398	10,683	10,852	11,169	11,449	11,861
235	Aircraft	10,684	9,892	10,188	10,540	11,223	11,793	12,289
21	Guided Missiles and Space Vehicles	9,404	8,701	8,536	8,352	8,330	8,376	8,522
220	Radio and TV Broadcasting and Communication Equipment	8,223	7,929	7,866	7,742	7,769	7,852	8,086
110	Petroleum Refining Except Fuel Oil	7,535	7,278	7,147	7,073	6,631	6,300	6,708
238	Ship Building and Repairing	7,364	7,112	7,050	7,349	7,374	7,638	7,752
	Aircraft and Missile Engines, Propulsion Units, and Parts	6,897	6,678	6,901	6,883	6,903	7,011	7,208
246		3,627	3,456	3,466	3,509	3,549	3,544	3,623
	Electronic Computers	3,540	3,451	3,393	3,350	3,338	3,276	3,305
222	Semiconductors and Related Devices	3,366	3,431	3,590	3,735	3,917	4,142	4,482
111	Fuel Oil	3,400	3,259	3,183	3,138	2,877	2,653	2,757
	Ammunition, Except Small Arms	3,347	3,248	3,408	3,526	3,601	3,622	3,667
223	Electronic Components, n.e.c.	3,196	3,105	3,127	3,123	3,155	3,204	3,330
	Miscellaneous Plastic Products	1,987	1,916	1,935	1,964	1,977	2,031	2,129
133		1,857	1,727	1,698	1,695	1,678	1,682	1,687
95	Industrial Inorganic Chemicals	1,543	1,513	1,544	1,537	1,538	1,591	1,699
249	Surgical and Medical Instruments	1,513	1,434	1,445	1,435	1,335	1,375	1,395
	Industrial Trucks, Tractors, Trailers and Stackers	1,378	1,329	1,383	1,395	1,382	1,373	1,378
248	Measuring Devices and Environmental Controls	1,262	1,233	1,269	1,277	1,290	1,322	1,383
90	Commercial Printing	1,231	1,188	1,187	1,188	1,174	1,189	1,231
233	Motor Vehicles and Passenger Car Bodies	1,309	1,180	1,169	1,252	1,335	1,373	1,398
151	-	1,032	1,024	1,027	1,019	984	1,000	958
96	Industrial Organic Chemicals	1,061	1,008	1,001	998	981	996	1,032
142		1,064	997	1,006	1,018	1,036	1,060	1,096
59	Apparel	1,098	977	950	951	690	816	831
23	Tanks and Tank Components	1,012	901	885	957	1,033	1,067	1,081
234	Motor Vehicle Parts and Accessories	944	888	914	1,001	1,057	1,086	1,104
199	Computer Peripheral Equipment	837	822	814	808	809	797	808
25	Small Arms Ammunition	812	817	863	904	933	955	1,007
210	Motors and Generators	802	746	754	754	749	752	760
141	Aluminum Rolling and Drawing Products	779	727	726	735	750	763	781
177	Special Dies, Jigs, Molds and Cutting Tools	726	659	666	676	690	704	716
102	Plastics Materials and Resins	670	637	638	643	639	652	677
230	Electrical Machinery, Equipment and Supplies, n.e.c.	638	622	620	607	609	619	644
163	Pipe, Valves, and Pipe Fittings	638	615	621	637	636	655	677
86	Newspaper Publishing and Printing	658	606	588	573	552	548	550
197	Industrial and Commercial Machinery, n.e.c.	612	585	594	607	613	630	649
158	Hardware, n.e.c.	629	581	578	591	602	615	627
159	Metal Plating, Polishing, and Coating	583	565	575	587	600	618	646
78	Products from Paper Mills, Including Building Paper	579	553	546	542	528	531	547
164	Fabricated Metal Products, n.e.c.	564	538	544	550	551	550	561
153	Screw Machine Products, Bolts, and Nuts	565	532	539	552	567	583	603
175	Machine Tools, Metal Cutting Types	610	530	531	515	487	435	382
253	Laboratory and Optical Instruments	547	527	530	530	536	541	549
53	Broadwoven Fabric Mills	579	513	505	504	433	457	468
61	Miscellaneous Fabricated Textile Products	530	492	488	493	465	468	488
211	Relays and Industrial Controls	502	485	484	484	489	506	539
145	Nonferrous Castings and Forgings	477	460	475	481	490	502	518
255	Photographic Equipment and Supplies	459	458	463	466	481	522	590
87	Periodical Publishing and Printing	447	432	437	443	443	455	475

Projected Defense and Defense-Related Employment by Occupational Category

Rounded to Thousands of Workers

Occupational Category	1997	1998	1999	2000	2001	2002	2003
Administrative Support (including Clerical)	511	487	475	465	451	452	455
Agriculture, Forestry, Fishing and Related	22	21	20	20	19	19	19
Engineers	190	182	179	176	174	174	175
Management Support	183	176	172	170	167	168	169
Managerial and Administrative	147	139	137	135	131	133	135
Marketing and Sales	107	103	101	100	96	26	66
Operators, Fabricators, and Laborers	418	394	386	381	360	367	370
Other Professional Specialties	287	277	273	269	266	267	271
Precision Production, Craft, and Repair	207	480	468	460	450	451	453
Service	273	262	259	257	245	251	256
Technicians and Related Support	113	108	106	105	103	103	104
Total All Categories:	2,758	2,629	2,576	2,537	2,461	2,480	2,507

Projected Defense and Defense-Related Employment of Engineers and Scientists

Rounded to Thousands of Workers

Aeronautical and Astronautical Engineers								
	19	18	18	17	17	17	17	
Chemical Engineers	4	4	æ	æ	æ	3	3	
Civil Engineers (Including Traffic Engineers)	56	25	24	23	23	23	23	
Electrical and Electronics Engineers	69	99	65	63	62	62	62	
Industrial Engineers (Except Safety Engineers)	12	12	12	12	12	12	12	
Mechanical Engineers	36	34	34	33	32	32	32	
Metallurgists and Metallurgical, Ceramic, and Materials Engineers	1			-	1	_		
Other Engineers	2	23	23	23	23	23	42	
Total Engineers	190	182	179	176	174	174	175	
Architects and Surveyors	11	11	10	10	10	10	10	
Life Scientists	4	4	4	4	4	4	4	
Computer Systems Analysts, Engineers, and Scientists	103	101	8	8	86	66	101	
Mathematicians and Other Mathematical Scientists	4	4	4	4	4	· 4	4	
Operations Research Analysts	6	6	6	6	•	00	•	
Chemists	9	9	9	9	9	9	9	
Geologists, Geophysicists, and Oceanographers	2	2	2	2	2	2	2	
Physicists and Astronomers	-	1	1		-	-	-	
Other Physical Scientists	9	9	9	9	9	9	9	
Total Other Professional Specialties	148	143	141	139	139	139	141	
Total Engineers and Scientists:	338	326	320	315	313	313	316	

Projections of Total Direct Expenditures, by State Rounded to Millions of 1998 dollars

State	1997	1998	1999	2000	2001	2002	2003
Alabama	5,312	5,108	5,034	4,982	4,818	4,839	4,904
Alaska	2,505	2,446	2,404	2,407	2,271	2,460	2,689
Arizona	4,511	4,370	4,384	4,411	4,449	4,504	4,595
Arkansas	1,286	1,251	1,240	1,238	1,201	1,207	1,218
California	42,599	40,951	40,720	40,703	40,670	40,987	42,126
Colorado	6,696	6,526	6,456	6,290	6,208	6,308	6,566
Connecticut	4,131	3,904	3,920	3,990	4,038	4,144	4,268
Delaware	816	795	795	790	770	775	782
District of Columbia	3,375	3,262	3,204	3,178	3,061	3,042	3,101
Florida	14,766	14,354	14,286	14,228	14,132	14,224	14,473
Georgia	10,418	10,063	9,982	9,839	9,667	9,691	9,838
Hawaii	3,587	3,474	3,418	3,391	3,318	3,303	3,347
Idaho	526	511	504	498	492	485	489
Illinois	4,235	4,068	4,022	3,999	3,886	3,884	3,944
Indiana	2,836	2,720	2,690	2,684	2,648	2,624	2,679
Iowa	852	813	806	795	789	787	803
Kansas	2,172	2,107	2,083	2,060	2,031	2,008	2,036
Kentucky	2,820	2,742	2,706	2,681	2,626	2,609	
Louisiana	4,026	3,887	3,832	3,856	3,772	3,755	2,638 3,816
Maine	2,342	2,258	2,238	2,316	2,292	2,359	2,396
Maryland	9,428	9,093	8,980	8,909	8,780	2,339 8,805	
Massachusetts	7,933	7,572	7,544	7,493	7,530	7,648	9,034
Michigan	5,136	4,842	4,864	5,004	5,108	5,157	7,886
Minnesota	2,500	2,425	2,446	2,476	2,495	2,507	5,235
Mississippi	4,278	4,117	4,071	4,129	4,051	4,130	2,558
Missouri	6,627	6,286	6,295	6,336	6,444	6,548	4,201
Montana	425	416	412	412	405	403	6,718
Nebraska	1,151	1,124	1,112	1,104	1,093		406
Nevada	1,136	1,116	1,112	1,104	1,093	1,078 1,091	1,089
New Hampshire	784	763	758	749	744	746	1,093
New Jersey	6,099	5,871	5,796	5,764	5,597	5,768	762
New Mexico	2,322	2,251	2,220	2,192	2,157		6,057
New York	8,089	7,758	7,723	7,680	2,137 7,581	2,137	2,161
North Carolina	6,335	6,150	6,080	6,042	7,381 5,927	7,657	7,858
North Dakota	703	691	683	682	683	5,930 709	5,976
Ohio	6,676	6,367	6,304	6,287	6,222	6,205	753
Oklahoma	3,382	3,279	3,239	3,225			6,338
Oregon	747	725	717	712	3,179	3,161	3,207
Pennsylvania	6,642	6,348	6,274		703	697	700
Rhode Island	1,653	1,595	1,587	6,183	6,068	5,995	6,118
South Carolina	4,023	3,899	3,854	1,568	1,544	1,544	1,575
South Dakota	760	719	3,834 754	3,845	3,677	3,716	3,750
Tennessee	3,160	3,038	2,998	786	736	646	647
Texas	20,440	19,742	•	2,983	2,758	2,832	2,856
Utah	2,015		19,599	19,558	19,278	19,277	19,627
Vermont	189	1,918 184	1,875 184	1,854	1,818	1,799	1,836
Virginia Virginia	24,535			185	185	186	190
Washington	7,180	23,743	23,388	23,207	22,487	22,651	23,144
West Virginia	7,180 431	6,930	6,840	6,797	6,693	6,668	6,779
Wisconsin		414	406	403	393	393	395
Wyoming	1,104	1,051	1,044	1,036	1,007	988	985
	343	336	332	332	327	323	327
U.S. Total	266,038	256,373	254,207	253,370	249,897	251,389	256,970

Projections of Total Direct Procurement and RDT&E Expenditures, by State

State	1997	1998	1999	2000	2001	2002	2003
Alabama	1,281	1,213	1,199	1,168	1,155	1,161	1,177
Alaska	386	405	400	404	462	591	796
Arizona	1,567	1,484	1,524	1,569	1,636	1,706	1,783
Arkansas	110	103	104	105	107	110	113
California	17,877	16,937	17,050	17,228	17,702	18,374	19,221
Colorado	3,443	3,348	3,315	3,169	3,127	3,250	3,482
Connecticut	2,345	2,212	2,258	2,340	2,437	2,550	2,658
Delaware	287	280	285	282	279	282	285
District of Columbia	241	227	223	216	212	213	216
Florida	4,407	4,195	4,218	4,216	4,286	4,414	4,603
Georgia	3,960	3,785	3,783	3,692	3,664	3,728	3,826
Hawaii	105	98	.97	95	94	95	97
Idaho	18	18	17	17	17	18	20
Illinois	621	589	597	605	620	642	671
Indiana	628	592	599	615	635	654	673
Iowa	355	340	338	334	337	344	360
Kansas	142	134	135	138	144	151	160
Kentucky	67	64	64	64	65	69	74
Louisiana	1,129	1,092	1,089	1,143	1,152	1,201	1,230
Maine	1,518	1,465	1,458	1,541	1,553	1,617	1,642
Maryland	2,482	2,366	2,365	2,355	2,389	2,471	2,602
Massachusetts	5,507	5,218	5,223	5,197	5,276	5,422	5,633
Michigan	2,690	2,525	2,585	2,756	2,907	3,003	3,059
Minnesota	1,269	1,229	1,262	1,306	1,340	1,377	1,424
Mississippi	1,683	1,616	1,611	1,697	1,722	1,797	1,839
Missouri	3,780	3,532	3,586	3,654	3,803	3,942	4,082
Montana	7	6	6	6	6	6	6
Nebraska	37	34	34	34	34	35	36
Nevada	36	34	34	33	33	33	33
New Hampshire	254	245	244	239	239	246	258
New Jersey	2,150	2,067	2,067	2,062	2,129	2,271	2,502
New Mexico	409	388	381	368	361	362	367
New York	3,845	3,663	3,693	3,708	3,779	3,889	4,058
North Carolina	404	386	384	374	372	381	399
North Dakota	79	83	82	82	93	118	157
Ohio	2,101	1,967	1,985	2,036	2,114	2,185	2,256
Oklahoma	206	191	193	197	204	210	216
Oregon	72	69	68	67	66	67	67
Pennsylvania	1,934	1,845	1,866	1,874	1,896	1,946	2,010
Rhode Island	769	742	751	750	753	767	789
South Carolina	292	277	281	288	296	305	313
South Dakota	18	17	17	17	17	18	18
Tennessee	428	405	398	384	377	377	380
Texas	5,093	4,803	4,833	4,835	4,936	5,078	5,253
Utah	402	367	358	352	352	357	367
Vermont	60	58	59	61	62	64	66
Virginia	3,533	3,387	3,347	3,323	3,345	3,496	3,720
Washington	1,370	1,277	1,263	1,251	1,265	1,294	1,339
West Virginia	21	20	19	19	19	19	19
Wisconsin	97	93	95	99	101	104	107
Wyoming	5	4	4	4	4	4	4
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Projections of Total Direct Expenditures Excluding Procurement and RDT&E, by State

State	1997	1998	1999	2000	2001	2002	2003
Alabama	4,032	3,894	3,835	3,814	3,663	3,678	3,728
Alaska	2,120	2,041	2,003	2,003	1,809	1,869	1,893
Arizona	2,944	2,886	2,860	2,842	2,813	2,797	2,813
Arkansas	1,176	1,148	1,136	1,133	1,094	1,097	1,105
California	24,722	24,014	23,670	23,475	22,968	22,612	22,905
Colorado	3,252	3,178	3,142	3,121	3,081	3,058	3,084
Connecticut	1,786	1,693	1,661	1,651	1,601	1,594	1,609
Delaware	529	515	510	508	491	493	497
District of Columbia	3,133	3,034	2,981	2,963	2,849	2,829	2,885
Florida	10,359	10,159	10,068	10,012	9,845	9,809	9,870
Georgia	6,458	6,278	6,198	6,147	6,003	5,962	6,013
Hawaii	3,482	3,375	3,321	3,297	3,224	3,208	3,250
Idaho	508	494	487	481	475	468	469
Illinois	3,614	3,479	3,425	3,394	3,265	3,242	3,273
Indiana	2,208	2,127	2,091	2,069	2,013	1,970	2,006
Iowa	497	473	468	460	452	443	443
Kansas	2,030	1,973	1,947	1,922	1,887	1,857	
Kentucky	2,753	2,679	2,642	2,617	2,561	2,541	1,876
Louisiana	2,896	2,795	2,742	2,713	2,501	2,541 2,553	2,564
Maine	824	794	780	775	738	2,333 742	2,586
Maryland	6,946	6,727	6,615	6,554	6,391		754
Massachusetts	2,425	2,354	2,320	2,296	2,254	6,334	6,432
Michigan	2,446	2,317	2,320	2,247	2,234	2,226	2,254
Minnesota	1,231	1,196	1,184	1,170	2,200 1,154	2,154	2,176
Mississippi	2,595	2,502	2,460	2,432	2,329	1,130	1,135
Missouri	2,847	2,754	2,709	2,432	2,529 2,641	2,332	2,362
Montana	418	409	406	405	399	2,606	2,636
Nebraska	1,114	1,090	1,078	1,070	1,059	397	400
Nevada	1,100	1,082	1,074	1,069	1,039	1,043	1,053
New Hampshire	530	518	513	510	505	1,058	1,060
New Jersey	3,950	3,803	3,729	3,702	3,468	500	503
New Mexico	1,913	1,864	1,839	1,825	•	3,497	3,554
New York	4,244	4,095	4,030	3,972	1,796	1,775	1,794
North Carolina	5,930	5,764	5,696		3,803	3,769	3,801
North Dakota	624	608	602	5,668	5,555	5,549	5,577
Ohio	4,575	4,400	4,319	600	590	591	595
Oklahoma	3,176	3,088	3,046	4,251	4,107	4,019	4,083
Oregon	674	656	5,040 649	3,029	2,975	2,951	2,991
Pennsylvania	4,708	4,5 03	4,407	645	636	630	633
Rhode Island	884	4,503 853		4,309	4,171	4,050	4,109
South Carolina	3,731	3,622	836	818	791	777	787
South Dakota	742	702	3,573	3,556	3,381	3,411	3,437
Tennessee	2,732	2,633	736	769	719	629	628
Гехаѕ	15,347	14,939	2,600	2,599	2,381	2,455	2,477
Utah	1,613		14,766	14,723	14,342	14,199	14,374
Vermont	1,013	1,551 126	1,517	1,502	1,465	1,441	1,469
Virginia	21,003		125	124	123	122	123
Washington	21,003 5,810	20,356	20,041	19,884	19,141	19,156	19,424
West Virginia	5,810 410	5,653	5,576	5,546	5,428	5,374	5,440
Wisconsin		394	387	384	374	374	376
Wyoming	1,007 339	959 331	949	937	906	884	878
		331	328	328	323	319	322
U.S. Total	184,516	178,878	176,356	175,003	169,922	168,575	170,503

Projections of Indirect Defense Purchases Resulting from Direct Purchases, by State

State	1997	1998	1999	2000	2001	2002	2003
Alabama	2,365	2,276	2,280	2,287	2,250	2,297	2,372
Alaska	500	481	476	476	461	463	481
Arizona	2,066	2,004	2,035	2,064	2,069	2,131	2,224
Arkansas	894	856	859	867	851	869	900
California	16,342	15,782	15,842	15,924	15,734	16,095	16,718
Colorado	2,021	1,942	1,943	1,944	1,915	1,950	2,026
Connecticut	4,188	4,023	3,922	3,872	3,838	4,157	4,336
Delaware	328	315	314	317	310	316	328
District of Columbia	691	671	666	665	658	682	705
Florida	4,837	4,689	4,727	4,787	4,748	4,904	5,140
Georgia Georgia	3,271	3,151	3,166	3,184	3,129	3,216	3,351
Hawaii	519	501	499	501	492	504	521
Idaho	494	478	486	491	488	497	519
Illinois	4,835	4,621	4,598	4,607	4,499	4,577	4,728
Indiana	2,794	2,670	2,671	2,690	2,659	2,710	2,798
	798	763	761	767	754	772	800
Iowa	1,369	1,323	1,331	1,343	1,318	1,343	1,395
Kansas	1,690	1,628	1,629	1,642	1,620	1,645	1,702
Kentucky		2,169	2,149	2,148	2,047	2,032	2,122
Louisiana	2,249 381	367	368	371	364	372	387
Maine		3,138	3,141	3,152	3,111	3,181	3,297
Maryland	3,251		4,443	3,132 4,464	4,445	4,599	4,827
Massachusetts	4,580	4,417	3,247	3,285	3,252	3,322	3,432
Michigan	3,400	3,242		2,009	1,977	2,016	2,090
Minnesota	2,072	1,993	1,995 940	2,009 949	933	2,010 954	999
Mississippi	982	941			2,843	2,912	3,010
Missouri	2,961	2,853	2,862	2,880	2,843 216	2,912	227
Montana	232	222	222	223		602	624
Nebraska	625	603	600	603	591	429	446
Nevada	434	420	421	425	418		
New Hampshire	497	478	480	484	482	496	515
New Jersey	3,857	3,697	3,704	3,752	3,724	3,849	4,048
New Mexico	925	905	916	925	912	929	969
New York	6,210	5,962	5,961	6,003	5,909	6,060	6,298
North Carolina	2,852	2,732	2,737	2,766	2,703	2,785	2,891
North Dakota	223	214	213	214	. 208	210	218
Ohio	5,360	5,121	5,122	5,150	5,084	5,178	5,348
Oklahoma	1,866	1,798	1,791	1,799	1,745	1,758	1,830
Oregon	1,105	1,076	1,094	1,113	1,111	1,147	1,201
Pennsylvania	5,043	4,825	4,817	4,843	4,756	4,847	5,009
Rhode Island	459	442	446	454	455	471	495
South Carolina	1,577	1,506	1,505	1,517	1,486	1,530	1,587
South Dakota	1,974	1,933	2,099	2,201	2,108	1,777	1,820
Tennessee	2,031	1,946	1,950	1,966	1,927	1,979	2,049
Texas	11,637	11,278	11,320	11,404	11,157	11,327	11,841
Utah	1,109	1,069	1,074	1,081	1,070	1,095	1,136
Vermont	264	261	268	275	279	289	305
Virginia	6,785	6,571	6,592	6,647	6,448	6,679	6,916
Washington	3,096	3,033	3,090	3,131	3,121	3,195	3,324
West Virginia	612	585	583	586	576	585	604
Wisconsin	1,928	1,844	1,844	1,857	1,827	1,864	1,925
Wyoming	267	257	255	255	244	243	253

Projections of Indirect Defense Purchases Resulting from Direct Pay, by State

State	1997	1998	1999	2000	2001	2002	2003
Alabama	1,191	1,150	1,120	1,111	1,098	1,089	1,111
Alaska	382	369	360	357	353	351	358
Arizona	1,229	1,192	1,165	1,160	1,149	1,142	1,167
Arkansas	502	484	470	465	458	453	460
California	7,783	7,531	7,336	7,275	7,194	7,137	7,278
Colorado	1,302	1,259	1,227	1,218	1,202	1,192	1,214
Connecticut	604	583	565	558	551	545	554
Delaware	211	204	199	197	195	194	198
District of Columbia	601	580	564	558	551	546	556
Florida	4,447	4,312	4,212	4,189	4,153	4,131	4,222
Georgia	2,433	2,357	2,302	2,290	2,269	2,256	2,305
Hawaii	1,062	1,026	1,002	996	985	978	998
Idaho	250	242	237	236	234	233	238
Illinois	2,137	2,064	2,003	1,981	1,956	1,938	1,973
Indiana	1,068	1,036	1,012	1,008	1,000	996	1,020
Iowa	421	406	393	388	383	378	384
Kansas	681	658	640	635	627	622	634
Kentucky	1,033	998	973	966	955	949	968
Louisiana	945	913	889	882	872	949 866	
Maine	338	328	320	318	316		882
Maryland	1,811	1,752	1,708			314	321
Massachusetts	1,088	1,732	1,708	1,697	1,680	1,670	1,705
Michigan	1,330	1,048	1,016	1,003	988	977	992
Minnesota	779	759	742	1,233 739	1,217	1,202	1,220
Mississippi	685	660	641	635	736	735	755
Missouri	1,250	1,210			627	621	632
Montana	213	205	1,178	1,168	1,155	1,147	1,170
Nebraska	457	443	200	198	195	193	196
Nevada	762	742	432	428	423	420	429
New Hampshire	235		730	726	720	717	733
New Jersey		227	221	219	216	214	218
New Mexico	1,467 622	1,415	1,374	1,357	1,340	1,326	1,350
New York		601	586	582	576	573	586
North Carolina	2,554	2,454	2,371	2,331	2,289	2,254	2,282
	2,349	2,277	2,224	2,213	2,194	2,183	2,233
North Dakota Ohio	246	237	231	230	227	226	230
	2,150	2,076	2,018	1,997	1,971	1,952	1,986
Oklahoma Oznana	1,126	1,088	1,060	1,052	1,041	1,033	1,054
Oregon	563	547	532	528	522	518	529
Pennsylvania	2,180	2,108	2,050	2,029	2,006	1,988	2,026
Rhode Island	272	263	257	255	252	251	256
South Carolina	1,221	1,182	1,154	1,147	1,136	1,129	1,153
South Dakota	180	175	170	169	167	165	169
Tennessee	986	956	932	925	916	909	928
Texas	5,178	5,010	4,886	4,853	4,802	4,768	4,868
Utah	564	546	531	527	521	- 517	528
Vermont	114	110	107	107	106	105	108
Virginia	4,967	4,806	4,689	4,662	4,615	4,587	4,686
Washington	1,991	1,928	1,882	1,870	1,850	1,838	1,876
West Virginia	271	261	254	251	248	245	250
Wisconsin	772	749	731	727	722	718	733
Wyoming	149	145	141	140	138	137	140
U.S. Total	67,154	64,957	63,286	62,784	62,097	61,627	62,863

SECTION II: PROJECTIONS FOR SELECTED INDUSTRIES

The tables presented in this section show projected defense and defense-related purchases from the 50 manufacturing industries projected to lead in defense production in calendar year 1998. A separate table is provided for each industry.

The upper portion of each table provides projections of direct and indirect defense purchases for calendar years 1997 through 2003. The lower portion of the table shows the indirect defense purchases estimated to result from DoD purchases from each of eleven industrial groupings.

The model produces projections for 320 industries; estimates for 50 of these industries are presented in this report. Those industries are grouped into 85 sectors in the state-level tables presented in Section III. Thus, industrial sector 44, "Aerospace," appearing in the state-level tables, includes four industries: industry 235, "Aircraft"; industry 236, "Aircraft and Missile Engines, Propulsion Units, and Parts"; industry 237, "Aircraft and Missile Parts and Auxiliary Equipment, n.e.c."; and industry 21, "Guided Missiles and Space Vehicles." A crosswalk between the industries cited in Section III and the industrial sectors addressed in Section III is provided in the appendix.

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Projected Defense Purchases of	An el and Missie Farts and Auxiliary Equipment, n.e.c.
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Rounded to Millions of 1998 Dollars

		1997	1998	1999	2000	2001	2002	2003
		SUMMA	RY OF DEFE	SUMMARY OF DEFENSE PURCHASES	ASES			
Direct Purchases		7,757	7,576	7,787	7,933	8,201	8,432	8,755
Indirect Purchases		2,905	2,822	2,895	2,918	2,968	3,016	3,105
	Total:	10,663	10,398	10,683	10,852	11,169	11,449	11,861
	HIQNI	INDIRECT DEFENSE PURCHASES RV PURCHASING SECTOD	3 PURCHASE	S RV PIRCH	ASING SECT	a ç		
Aircraft Engines		364	351	365	364	366	374	387
Aircraft Parts		510	465	456	461	479	493	513
Ammunition		1	-	1				-
Communication Equipment		2	8	2	2	. 6		, ,
Missiles		1,242	1,187	1,192	1,180	1.180	1.195	1,223
Motor Vehicles		0	0	0	0	0		-
Shipbuilding		0	0	0	1	. —		· -
Tanks		0	0	0	0	0	· c	· c
Other Electronic Equipment		0	0	0	0	0	· c	· c
Other Ordinances		0	0	0	0	0	0	o c
Other		785	817	879	910	938	951	978
	Total:	2,905	2,822	2,895	2,918	2,968	3,016	3,105

			Projected	Defense P Aircraft	Projected Defense Purchases of Aircraft	وي				
			Rounded to	Millions of	Rounded to Millions of 1998 Dollars					
			1997	1998	1999	2000	2001	2002	2003	
			SUMMARY OF DEFENSE PURCHASES	OF DEFENS	E PURCHAS	SES				
	Direct Purchases		10,618	9,827	10,121	10,473	11,153	11,723	12,215	
	Indirect Purchases		99	22	99	29	69	71	73	
		Total:	10,684	9,892	10,188	10,540	11,223	11,793	12,289	
		INDIRECT	T DEFENSE PURCHASES BY PURCHASING SECTOR	RCHASES 1	BY PURCHA	SING SECT	JR.			
	Aircraft Engines		2	1	7	7	7	2	2	
	Aircraft Parts		38	37	38	39	40	41	43	
	Ammunition		0	0	0	0	0	0	0	
26	Communication Equipment		0	0	0	0	0	0	0	
	Missiles		5	5	8	S	\$	S	5	
	Motor Vehicles		0	0	0	0	0	0	0	
	Shipbuilding		0	0	0	0	0	0	0	
	Tanks		0	0	0	0	0	0	0	
	Other Electronic Equipment		0	0	0	0	0	0	0	
	Other Ordinances		0	0	0	0	0	0	. 0	
	Other		21	21	21	22	. 22	23	24	
		Total:	99	64	99	19	69	71	73	
				e.						

		1997	1998	1999	2000	2001	2002	2003
		SUMMAE	X OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		9,122	8,435	8,270	8,092	8,072	8,116	8.258
Indirect Purchases		282	267	265	260	259	790	264
	Total:	9,404	8,701	8,536	8,352	8,330	8,376	8,522
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	JR		
Aircraft Engines		1	1	1	-	-	-	_
Aircraft Parts		14	14	14	15	15	16	ž 16
Ammunition 5		0	0	0	0	0	0	0
Communication Equipment		0	0	0	0	0	0	o 0
Missiles		264	250	248	242	240	241	244
Motor Vehicles		0	0	0	0	0	0	0
Shipbuilding		0	0	0	0	0	0	0
Tanks	•	0	0	0	0	0	0	0
Other Electronic Equipment		0	0	0	0	0	0	0
Other Ordinances		0	0	0	0	0	0	0
Other		2	2	7	3	3	3	3
	Total:	282	267	265	260	259	260	264

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Projected Defense Purchases of Radio and TV Broadcasting and Communication Equipment
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		Nonino.		1220 EQUID					
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	IMARY OF DEFENSE PURCHASES	NSE PURCHA	SES				
Direct Purchases		7,013	6,794	6,727	965'9	6,591	6,638	6,827	
Indirect Purchases		1,210	1,135	1,139	1,146	1,177	1,214	1,258	
	Total:	8,223	7,929	7,866	7,742	7,769	7,852	8,086	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR			
Aircraft Engines		0	0	0	0	0	0	0	
Aircraft Parts		3	က	က	e	3	3	3	
Ammunition		0	0	0	0	0	0	0	
8 Communication Equipment		584	522	509	512	535	561	588	
Missiles		518	497	205	499	501	208	522	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		13	13	13	14	14	15	15	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		1		1	1			1	
Other Ordinances		0	0	0	0	0	0	0	
Other		91	66	110	117	123	124	128	
	Total:	1,210	1,135	1,139	1,146	1,177	1,214	1,258	

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Projected Defense Purchases of

		Petroleu	m Refining	roleum Refining Except Fuel Oil	ioi				
		Round	ed to Millions	Rounded to Millions of 1998 Dollars	S				
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	RY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		3,168	3,083	3,020	2,979	2,838	5,669	2.938	
Indirect Purchases		4,366	4,195	4,127	4,094	3,793	3,631	3,770	
	Total:	7,535	7,278	7,147	7,073	6,631	6,300	6,708	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR			
Aircraft Engines		37	36	37	37	37	37	38	
Aircraft Parts		52	22	53	54	57	28	61	
Ammunition		49	48	51	52	54	54	36	

•							
Aircraft Engines	37	36	37	37		37	38
Aircraft Parts	52	52	53	54	57	. % %	<u> </u>
Ammunition	49	48	51	52	\$	3 3	95
S Communication Equipment	70	89	89	69	70	71	7.
Missiles	28	27	27	27	27	78	28
Motor Vehicles	21	20	20	22	23	5 4 2	24
Shipbuilding	09	58	57	59	8	; 2 9	62
Tanks	9	S	5	ν.	9	9	9
Other Electronic Equipment	7	7	7	9	7	7	7
Other Ordinances	2	7	2	2	æ	က	· 10
Other	4,033	3,874	3,800	3,760	3,451	3,281	3,410

3,770

3,631

3,793

4,094

4,127

4,195

4,366

Total:

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		Project Ship I Rounde	ted Defense Building an	Projected Defense Purchases of Ship Building and Repairing Rounded to Millions of 1998 Dollars	ي پيو				538
		1997	1998	1999	2000	2001	2002	2003	
	A. A	SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		7,321	7,070	7,008	7,3	7,337	7,598	7,711	
Indirect Purchases		4	42	42	42	37	40	41	
	Total:	7,364	7,112	7,050	7,349	7,374	7,638	7,752	
		INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	XC XC			
Aircraft Engines		0	0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	0	
O Communication Equipment		0	0	0	0	0	0	0	
Missiles		0	0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	. 0	
Shipbuilding		17	16	16	17	17	17	18	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		27	26	25	25	20	22	23	
	Total:	44	42	42	42	37	40	41	

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Projected Defense Purchases of	Aircraft and Missile Engines, Propulsion Units, and Parts
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		TIPONT .	STOTING OF TO	Country to Minimals of 1770 Donas				
		1997	1998	1999	2000	2001	2002	2003
		SUMMAR	EY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		4,115	3,917	4,018	3,957	3,944	3,988	4,088
Indirect Purchases		2,782	2,761	2,883	2,926	2,959	3,023	3,120
	Total:	6,897	6,678	6,901	6,883	6,903	7,011	7,208
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR		
Aircraft Engines		780	743	763	752	751	761	781
Aircraft Parts		73	72	9/	79	83	87	91
Ammunition		e	3	m	က	3	4	4
Communication Equipment		7	7	7	7	∞ .	∞	6
Missiles		536	515	521	519	522	531	546
Motor Vehicles		7	2	7	7	2	7	2
Shipbuilding		7	2	7	2	2	2	3
Tanks		1	_	1	1	-	1	1
Other Electronic Equipment		0	0	0	0	0	1	1
Other Ordinances		0	0	0	0	0	0	0
Other		1,379	1,416	1,508	1,560	1,585	1,627	1,682
	Total:	2,782	2,761	2,883	2,926	2,959	3,023	3,120

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Projected Defense Purchases of	gation Equipment	one of 1008 Dollars
Projected Defen	Search and Navigation Equ	Rounded to Millions of 1998 Dollars

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		1997	1998	1999	2000	2001	2002	2003	
		SUMMA	SUMMARY OF DEFENSE PURCHASES	NSE PURCHA	SES				
Direct Purchases		3,508	3,337	3,342	3,383	3,421	3,416	3,493	
Indirect Purchases		118	118	124	125	128	128	130	
	Total:	3,627	3,456	3,466	3,509	3,549	3,544	3,623	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE:	S BY PURCH	ASING SECT	OR			
Aircraft Engines		7	7	7	7	7	7	7	
Aircraft Parts		. 1	-	1	1	1	-	1	
Ammunition		0	0	0	0	0	0	0.	
S Communication Equipment		9	9	9	9	9	9	9	
Missiles		7	7	7	7	7	7	7	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		∞	7	7	∞	∞	∞	∞	
Tanks	•	0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		68	8	95	26	66	66	101	
	Total:	118	118	124	125	128	128	130	

Projected Defense Purchases of

Rounded to Millions of 1998 Dollars Electronic Computers

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAI	AY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		2,882	2,811	2,763	2,728	2,718	2,666	2,689	
Indirect Purchases		929	640	630	622	620	610	616	
	Total:	3,540	3,451	3,393	3,350	3,338	3,276	3,305	
	IONI	INDIKECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR			
Aircraft Engines		1			1	1	-	H	
Aircraft Parts		2		2	2	2	2	2	
Ammunition		1	-	-	1	1	-	1	
Communication Equipment		64	93	92	92	92	93	95	
Missiles		4	4	4	4	4	4	4	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		-	1	1	-	-	-	1	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		1	1	0	0	-	-		
Other Ordinances		0	0	0	0	0	0	0	
Other		552	538	529	521	518	207	511	

610

620

622

630

640

658

Total:

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Projected Defense Purchases of Semiconductors and Related Devices

Rounded to Millions of 1998 Dollars

		1007	1008	1000	0000	2001	0000	2000	
		1661	1990	1999	7007	7007	7007	2003	
		SUMMA	SUMMARY OF DEFENSE PURCHASES	VSE PURCHA	SES				
Direct Purchases		34	32	31	31	.31	30	30	
Indirect Purchases		3,332	3,399	3,559	3,704	3,887	4,112	4,452	
	Total:	3,366	3,431	3,590	3,735	3,917	4,142	4,482	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCHA	ASING SECT	JR.			
Aircraft Engines		24	24	26	28	29	31	34	
Aircraft Parts		173	178	192	206	223	241	261	
Ammunition		226	231	255	277	296	312	329	
Communication Equipment		1,129	1,142	1,192	1,239	1,304	1,373	1,473	
Missiles		142	142	150	157	165	174	187	
Motor Vehicles		34	33	35	39	4	47	50	
Shipbuilding		26	27	28	3.1	33	36	38	
Tanks		2	1	7	7	2	2	2	
Other Electronic Equipment		65	63	65	<i>L</i> 9	71	9/	83	
Other Ordinances		12	11	11	12	13	14	15	

1,979

1,806

1,706

1,648

1,603

1,547

1,500

Other

4,452

4,112

3,887

3,704

3,559

3,399

3,332

Total:

Projected Defense Purchases of	Fuel Oil	Rounded to Millions of 1998 Dollars

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAI	RY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		2,598	2,499	2,443	2,403	2,239	1,996	2,079	
Indirect Purchases		805	092	740	735	638	657	829	
	Total:	3,400	3,259	3,183	3,138	2,877	2,653	2,757	
	IIONI	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR			
Aircraft Engines		11	11	1	10	10	10	111	
Aircraft Parts		13	13	13	13	14	14	14	
Ammunition		11	=	111	12	12	12	12	
S Communication Equipment		17	17	16	16	16	16	17	
Missiles		7	7	7	9	9	9	7	
Motor Vehicles		9	9	9	9	7	7	7	
Shipbuilding		17	16	15	16	16	16	16	
Tanks		2	1	1	2	2	7	7	
Other Electronic Equipment		7	2	2	7	7	2	7	
Other Ordinances		-	1	1	1	1	,	1	
Other		715	<i>LL9</i>	657	651	553	571	591	
	Total:	805	160	740	735	638	657	829	

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			1997	1998	1999	2000	2001	2002	2003	
			SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES				
Dir	Direct Purchases		3,156	3,062	3,213	3,324	3,395	3,415	3,457	
Ind	Indirect Purchases		192	186	195	202	206	207	210	
		Total:	3,347	3,248	3,408	3,526	3,601	3,622	3,667	
		INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR			
Air	Aircraft Engines	,	0	0	0	0	0	0	0	
Air	Aircraft Parts		0	0	0	0	0	0	0	
Am	Ammunition		192	186	195	202	206	207	210	
Co	95 Communication Equipment		0	0	0	0	0	0	0	
Mis	Missiles		0	0	0	0	0	0	0	
Mo	Motor Vehicles		0	0	0	0	0	0	0	
Shij	Shipbuilding		0	0	0	0	0	0	0	
Tanks	ıks		0	0	0	0	0	0	0	
S E	Other Electronic Equipment		0	0	0	0	0	0	. 0	
Oth	Other Ordinances		0	0	0	0	0	0	0	
Other	ner		0	0	0	0	0	0	0	
		Total:	192	186	195	202	206	207	210	

Projected Defense Purchases of Electronic Components, n.e.c.

		Round	Rounded to Millions of 1998 Dollars	of 1998 Dollar	ş				
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAE	SUMMARY OF DEFENSE PURCHASES	VSE PURCHA	SES				
Direct Purchases		505	485	485	471	469	473	493	
Indirect Purchases		2,691	2,620	2,643	2,652	2,686	2,731	2,837	
	Total:	3,196	3,105	3,127	3,123	3,155	3,204	3,330	
	INDIA	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	ä			
Aircraft Engines		18	17	18	18		19	19	
Aircraft Parts		189	185	191	197	205	212	222	
Ammunition		76	95	100	105	108	110	113	
22 Communication Equipment		1,377	1,331	1,331	1,331	1,347	1,364	1,411	
Missiles		310	295	297	294	295	299	306	
Motor Vehicles		7	9	7	7	∞	∞	6	
Shipbuilding		10	10	10	10	11	11	11	
Tanks		0	0	0	0	0	1	1	
Other Electronic Equipment		55	53	53	52	53	54	58	
Other Ordinances		- .	_	1	1		1	1	
Other		627	979	634	989	640	652	685	
	Total:	2,691	2,620	2,643	2,652	2,686	2,731	2,837	

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Projected Defense Purchases of Miscellaneous Plastic Products

The state of the s									
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAI	SUMMARY OF DEFENSE PURCHASES	NSE PURCHA	SES				
Direct Purchases		43	40	40	39	39	41	47	
Indirect Purchases		1,944	1,875	1,895	1,925	1,938	1,990	2,081	
	Total:	1,987	1,916	1,935	1,964	1,977	2,031	2,129	
	IUNI	INDIPECT DEFENSE PUDCIA SES BY DIPCHA STAG.	PIDCHACE	HJalla Aa S	TOES CIVIS	a			
Aircraft Engines		29	29	30	30		31	32	
Aircraft Parts		59	28	09	62	99	89	72	
Ammunition		54	54	58	61	63	92	<i>L</i> 9	
S Communication Equipment		186	182	184	187	192	197	207	
Missiles		88	84	85	85	98	87	06	
Motor Vehicles		71	99	<i>L</i> 9	74	80	83	85	
Shipbuilding		37	36	36	39	39	41	42	
Tanks		&	7	7	7	∞	∞	6	
Other Electronic Equipment		89	99	<i>L</i> 9	65	99	<i>L</i> 9	72	
Other Ordinances		2	-	7	2	2	2	2	
Other		1,343	1,292	1,300	1,313	1,306	1,339	1,404	
	Total:	1,944	1,875	1,895	1,925	1,938	1,990	2,081	

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	MARY OF DEFENSE PURCHASES	SES				
Direct Purchases		19	18	18	17	17	16	16	
Indirect Purchases		1,838	1,709	1,680	1,678	1,661	1,666	1,670	
	Total:	1,857	1,727	1,698	1,695	1,678	1,682	1,687	
	INDIREC	T DEFENSE	PURCHASES	BY PURCHA	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	JR			
Aircraft Engines		54	51	51	49	48	47	48	
Aircraft Parts		74	70	70	70	71.	72	73	
Ammunition		131	125	128	129	130	128	128	
Communication Equipment		127	119	116	114	113	112	113	
Missiles		25	24	23	23	22	22	22	
Motor Vehicles		85	92	9/	82	98	87	87	
Shipbuilding		443	418	405	413	408	415	413	
Tanks		24	21	20	22	22	23	23	
Other Electronic Equipment		9	9	9	S	2	5	9	
Other Ordinances		11	6	10	10	111	12	12	
Other		857	790	775	761	744	743	746	1
	Total:	1,838	1,709	1,680	1,678	1,661	1,666	1,670	

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			Projec Indust	Projected Defense Purchases of Industrial Inorganic Chemicals	Purchases on Chemica	jc Sl				
			1997	1998	1999	2000	2001	2002	2003	
			SUMMAE	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
	Direct Purchases		971	096	284	586	991	1,033	1,110	
	Indirect Purchases		572	554	557	553	547	258	289	
	٠	Total:	1,543	1,513	1,544	1,537	1,538	1,591	1,699	
		INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	ASING SECT	JR			
	Aircraft Engines		4	4	4	4	4	4	4	
	Aircraft Parts		7	9	9	7	7	7	7	
	Ammunition		9	9	9	9	9	9	9	
40	Communication Equipment		14	14	13	13	13	14	14	
	Missiles		4	4	4	4	4	4	4	
	Motor Vehicles		9	5	5	5	9	9	9	
	Shipbuilding		16	15	14	15	14	15	15	
	Tanks		1	-	1	-	1	1	1	
	Other Electronic Equipment		2	7	2	2	2	2	2	
	Other Ordinances		0	0	0	0	0	0	0	
	Other		512	497	200	496	490	501	531	

Total:

		Projected Surgical an Rounded to	Projected Defense Purchases of Surgical and Medical Instruments Rounded to Millions of 1998 Dollars	rchases of nstruments 998 Dollars					249
		1997	1998	1999	2000	2001	2002	2003	
		SUMMARY OF DEFENSE PURCHASES	OF DEFENSE	PURCHASE	70				
Direct Purchases		1,490	1,412	1,423	1,414	1,314	1,356	1,375	
Indirect Purchases		23	22	22	22	21	20	20	
	Total:	1,513	1,434	1,445	1,435	1,335	1,375	1,395	
	LECTOR	INDIDECT DEFENSE PURCHASES BY PURCHASING SECTOR	PCHACES BY	7 PITRCHASI	ACTORS CN				
Aircraft Engines		0	0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	0	
Communication Equipment		0	0	0	0	0	0	0	
Missiles			0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		23	22	22	22	20	19	20	
	Total:	23	22	22	22	21	20	20	

		1997	1998	1999	2000	2001	2002	2003	
		SUMMA	N OF DEFE	STIMMARY OF DEFENSE PITECHASES	CEC		77		
					College				
Direct Furchases		1,273	1,228	1,278	1,290	1,277	1,269	1,273	
Indirect Purchases		105	101	105	106	105	105	105	
	Total:	1,378	1,329	1,383	1,395	1,382	1,373	1,378	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	Z.			
Aircraft Engines		0	0	0	0	0	c	c	
Aircraft Parts		<i>></i>		1		· —	· -) - -	
Ammunition		0	0	1	-	-	· 		
S Communication Equipment		1	_	-		•	-	. -	
Missiles		0	0	0	0	· C		- C	
Motor Vehicles		0	0	0	0	• 0	· c	o c	
Shipbuilding		1		-	1	· - !	•	·	
Tanks		0	0	0	0	0	C		
Other Electronic Equipment		0	0	0	` O	0) C	o c	
Other Ordinances		0	0	0	0	0	0	o c	
Other		101	26	101	102	101	100	101	
	Total:	105	101	105	106	105	105	105	

Projected Defense Purchases of Measuring Devices and Environmental Controls

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		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		917	888	606	910	917	946	<i>1</i> 66	
Indirect Purchases		346	346	360	367	374	376	386	
	Total:	1,262	1,233	1,269	1,277	1,290	1,322	1,383	
						!			
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	×			
Aircraft Engines		10	10	10	10	10	10	10	
Aircraft Parts		3	3	æ	3	ĸ	3	4	
Ammunition		2	2	2	7	2	2	7	
Communication Equipment		·	ĸ	S	ĸ	\$	S	2	
Missiles		2	2	2	2	2	7	2	
Motor Vehicles		14	13	13	14	15	15	15	
Shipbuilding		∞	7	7	∞	∞	∞	∞	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances	÷	0	0	0	0	0	0	0	
Other		301	303	317	322	328	330	338	
	Total:	346	346	360	367	374	376	386	

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		Projec	ted Defense	Projected Defense Purchases of	Je				06
		Rounde	Commercial Printing ded to Millions of 1998 Do	Commercial Printing Rounded to Millions of 1998 Dollars	8				
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		62	62	09	58	57	53	54	
Indirect Purchases		1,169	1,126	1,127	1,130	1,117	1,136	1,178	
	Total:	1,231	1,188	1,187	1,188	1,174	1,189	1,231	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCHA	ASING SECT	8			
Aircraft Engines		35	34	35	34	34	35	36	
Aircraft Parts		4	43	44	45	47	48	50	
Ammunition		43	42	4	46	47	47	48	
E Communication Equipment		83	80	80	80	80	81	84	
Missiles		36	35	35	34	34	35	35	
Motor Vehicles		15	14	14	16	17	17	18	
Shipbuilding		56	25	25	26	56	27	28	
Tanks		3	33	т	3	3	4	4	
Other Electronic Equipment		ကို	33	m ,	8	3	ε,	3	
Other Ordinances		2	2	8	2	2	2	2	
Other	,	878	847	843	841	823	837	870	

1,178

1,136

1,117

1,130

1,127

1,126

1,169

Total:

		COUNTY	NOUNCE IN INTITIONS OF 1770 POHEES	1770 DOIL					
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		1,279	1,153	1,141	1,222	1,303	1,340	1,363	
Indirect Purchases		30	27	27	30	32	34	35	
	Total:	1,309	1,180	1,169	1,252	1,335	1,373	1,398	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	OR			
Aircraft Engines		0	0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	0	
Communication Equipment		0	0	0	0	0	0	0	
Missiles		0	0	0	0	0	0	0	
Motor Vehicles		19	17	17	18	20	20	21	
Shipbuilding		0	0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		11	10	10	12	13	13	14	
	Total:	30	27	27	30	32	34	35	

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAI	IMARY OF DEFENSE PURCHASES	NSE PURCHA	SES				
Direct Purchases		847	850	853	844	811	828	789	
Indirect Purchases		185	174	174	175	173	172	169	
	Total:	1,032	1,024	1,027	1,019	984	1,000	958	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCH	ASING SECTO	X.			
Aircraft Engines		-	1	Т	1	-	Ψ-	-	
Aircraft Parts		1	-	1	-	ı ,	·		
Ammunition		1	-	1	-	-	۰ -	٠.	
S Communication Equipment		1		-	· -	· —	1 -	-	
Missiles		1	-	· -	• —	-		→ -	
Motor Vehicles		0	0	0	0	· O	· C	. c	
Shipbuilding		37	36	36	38	38	° 40	41	
Tanks		0	0	0	0	0	0	: C	
Other Electronic Equipment		0	0	0	0	0	0) C	
Other Ordinances		0	0	0	0	0	0	0	
Other		142	133	133	132	129	126	122	
	Total:	185	174	174	175	173	172	169	

		Projec Indus Rounde	ted Defense trial Organi ed to Millions o	Projected Defense Purchases of Industrial Organic Chemicals Rounded to Millions of 1998 Dollars	1 12				-
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	X OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		4	.4	4	4	4	4	4	
Indirect Purchases		1,057	1,004	266	994	876	992	1,029	
	Total:	1,061	1,008	1,001	866	981	966	1,032	
	INDIRECT	_	PURCHASE	DEFENSE PURCHASES BY PURCHASING SECTOR	ASING SECT	JR C			
Aircraft Engines		20	19	20	19	19	19	20	
Aircraft Parts		39	38	39	40	41	42	43	
		24	24	25	26	27	27	28	
25 Communication Equipment		2	62	63	2	65	99	69	
Missiles		22	21	21	21	21	22	22	
Motor Vehicles		23	21	21	23	24	25	25	
Shipbuilding		33	31	30	31	31	32	32	
Tanks		'	4	4	5	5	5	5	
Other Electronic Equipment		13	13	13	12	13	13	14	
Other Ordinances		-	1	1	1	_	-	1	
Other		810	208	759	752	731	740	692	

1,029

992

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994

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1,004

1,057

Total:

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Projected Defense Purchases of	Other Nonferrous Rolling and Drawing, and Nonferrous Wire
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The state of the s									
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFE	MARY OF DEFENSE PURCHASES	SES	7730			
Direct Purchases		151	128	126	124	122	118	117	
Indirect Purchases		913	698	880	894	914	942	616	
1.	Total:	1,064	166	1,006	1,018	1,036	1,060	1,096	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	JR.			
Aircraft Engines		166	158	162	160	160	162	166	
Aircraft Parts		99	2	99	29	70	72	75	
Ammunition		13	13	14	15	15	15	16	
Communication Equipment		82	79	6/	80	82	83	87	
Missiles		31	30	31	31	31	32	33	
Motor Vehicles		4	4	4	4	4	S	S	
Shipbuilding		32	31	30	32	32	33	33	
Tanks		31	28	28	30	32	33	34	
Other Electronic Equipment		10	10	10	6	10	10	111	
Other Ordinances		Ţ	1	1	1	-	_	1	
Other		477	451	456	466	479	497	519	
	Total:	913	698	088	894	914	942	626	

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		913	808	784	786	558	899	089	
Indirect Purchases		186	169	165	165	132	148	151	
	Total:	1,098	716	950	951	069	816	831	
		,							
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	OR			
Aircraft Engines		1	_		-	, 	-	-	
Aircraft Parts		2	7	2	2	2	7	7	
Ammunition		11	11	11	12	12	12	12	
& Communication Equipment		S	5	S	S	S	5	\$	
Missiles		1	1	—	-	1	Ţ	1	
Motor Vehicles		1	1	-		_	-	1	
Shipbuilding		1	1	_	1	1	1	1	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		162	. 147	143	142	109	124	127	
	Total:	186	169	165	165	132	148	151	

		Konna	ed to Millions o	Rounded to Millions of 1998 Dollars	80				
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		1,006	968	879	952	1,027	1,061	1,074	
Indirect Purchases		9	9	ν.	9	9	7	7	
	Total:	1,012	901	885	957	1,033	1,067	1,081	
	INDIR	INDIRECT DEFENSE PURCHASES BY	PURCHASES	BY PURCHA	PURCHASING SECTOR	æ			
Aircraft Engines		0	0	0	0	0	0	c	
Aircraft Parts		0	0	0	0	0	0	· 0	
Ammunition		0	0	0	0	0	0	0	
S Communication Equipment		0	0	0	0	0	0	0	
Missiles		0	0	0	0	0	0	C	
Motor Vehicles		0	0	0	0	0	0	o C	
Shipbuilding		0	0	0	0	0	0	0	
Tanks		9	9	S	9	9	7	7	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		0	0	0	0	0	0	0	
	Total:	9	9	5	9	9	7	7	

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		352	343	372	431	472	485	491	
Indirect Purchases		591	545	542	570	585	601	613	
	Total:	944	888	914	1,001	1,057	1,086	1,104	
	INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	OR			
Aircraft Engines		e	e	33	33	3	3	8	
Aircraft Parts		4	4	4	4	4	4	4	
Ammunition		4	4	4	4	4	4	5	
Communication Equipment		7	7	7	7	7	7	7	
Missiles		3	ю	3	3		33	8	
Motor Vehicles		438	396	394	424	452	464	470	
Shipbuilding		9	9	9	9	9	7	7	
Tanks		П	0	0	1	1	1	1	
Other Electronic Equipment		1	1	-	-	-	1	1	
Other Ordinances		0	0	0	0	0	0	0	
Other		124	121	120	117	104	107	112	
	Total:	591	545	542	570	585	601	613	

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Computer Peripheral Equipment Rounded to Millions of 1998 Dollars

Projected Defense Purchases of

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	ISE PURCHA	SES				
Direct Purchases		341	339	338	339	342	336	341	
Indirect Purchases		496	483	475	469	467	461	467	
	Total:	837	822	814	808	808	767	808	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	SING SECT	%			
Aircraft Engines		4	4	4	4	4	4	4	
Aircraft Parts		S	S	5	. 2	S	\$	9	
Ammunition		1	1		1	_	-	1	
S Communication Equipment		9	9	9	9	9	9	9	
Missiles		2	2	7	2	2	2	2	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		1	1	-	1	1	_	1	
Tanks		0	0	0.	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	

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0 456

0 464

Other Ordinances

Other

0 476

467

461

467

469

475

483

496

Total:

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHAS	SES				
Direct Purchases		808	813	829	006	929	951	1,002	
Indirect Purchases		4	4	4	4	4	4	4	
	Total:	812	817	863	904	933	955	1,007	
	INDIRE	INDIRECT DEFENSE P	PURCHASES BY		PURCHASING SECTOR	J.R			
Aircraft Engines		0	0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	0	
Ammunition		7	2	33	3	æ	3	3	
Communication Equipment		0	0	0	0	0	0	0	
Missiles		0	0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		1	-	1	-	-	_	1	
	Total:	4	4	4	4	4	4	4	

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		Projec	ted Defense	Projected Defense Purchases of	of				210
		M Round	Motors and Generators anded to Millions of 1998 Dol	Motors and Generators Rounded to Millions of 1998 Dollars	S				
		1997	1998	6661	2000	2001	2002	2003	
		SUMMAI	RY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		503	464	474	472	467	470	475	
Indirect Purchases		738	281	281	283	281	282	285	
	Total:	802	746	754	754	749	752	160	
					i i	ţ			
	INDIK	INDIKECT DEFENSE PURCHASES BY PURCHASING SECTOR	PUKCHASE	S BY PURCH	ASING SECT	X			
Aircraft Engines		. 1	_		-	_	 -	-	
Aircraft Parts		9	9	9	9	9	9	9	
Ammunition		-	-	1	1	1	_	1	
Communication Equipment		37	35	34	34	34	34	35	
Missiles		4	4	4	ю	æ	က	4	
Motor Vehicles		4	က	ĸ	4	4	4	4	
Shipbuilding		29	28	27	28	28	29	29	
Tanks		-	1	1	1	1	-	-	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances	,	0	. 0	0	0	0	0	0	
Other		217	204	203	204	202	202	203	
	Total:	298	281	281	283	281	282	285	

Projected Defense Purchases of	mn	
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		1997	1998	1999	2000	2001	2002	2003	
		SUMMAI	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		6	ò	6	6	6	∞	∞	
Indirect Purchases		170	718	717	726	741	755	773	
	Total:	611	727	726	735	750	763	781	
		INDIDECT PRESENCE BITECH A CER BY WINCH CHARLES				į			
Aircraft Engines		ect Deremos 21	FUNCHASES	DI PURCEL 20	ASING SECTO	J.K 10	9	06	
Aircraft Parts		102	86	3 20	100	103	; 5	201	
Ammunition		51	49	51	52	53	53	53	
S Communication Equipment		46	4	43	43	42	42	43	
Missiles		21	20	20	19	19	19	20	
Motor Vehicles		13	12	12	13	14	14	14	
Shipbuilding		57	54	53	55	55	56	56	
Tanks		29	26	25	27	28	29	29	
Other Electronic Equipment		4	4	4	က	3	.	4	
Other Ordinances		1	-	1	-	1	-	-	
Other		425	390	388	393	404	413	425	
	Total:	170	718	717	726	741	755	773	

Projected Defense Purchases of Special Dies, Jigs, Molds and Cutting Tools

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAE	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		135	112	1111	107	102	91	81	
Indirect Purchases		591	547	555	268	589	613	636	
	Total:	726	629	999	929	069	704	716	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	ASING SECT	OR			
Aircraft Engines		39	37	38	38	37	38	39	
Aircraft Parts		19	19	19	19	20	21	21	
Ammunition		27	26	27	28	50	29	30	
S Communication Equipment		23	22	22	22	22	23	23	
Missiles		19	18	18	18	18	18	19	
Motor Vehicles		19	17	17	19	20	21	21	
Shipbuilding		17	17	16	17	17	18	18	
Tanks		ю	5	Ģ	e	3	3	3	
Other Electronic Equipment		7	2	2	2	2	2	2	
Other Ordinances		1	1	1	1	1	-	1	
Other		421	386	391	402	419	440	458	•
	Total:	591	547	555	268	589	613	636	

Projected Defense Purchases of

1997 1998 1999 2000 2001 2002 2003 2004 2004 2004 2005			Plasti	cs Materials	Plastics Materials and Resins	٠				
1997 1998 1999 2000 2001 2002 2 Summary Of Defense Purchases			Rounde	ed to Millions o	of 1998 Dollar					
Total			1997	1998	1999	2000	2001	2002	2003	
5 5 5 5 5 5 5 5 5 648 658 653 648 658 648 648 658 648 648 648 648 648 648 648 648 648 648 648 648 648 648 648 648 652 652 652 652 652 652 652 652 652 652 652 652 653 648 653 648 653 648 653 648 653 648 653 648 653 653 654 653 653 653 653 654 653 654 653			SUMMAR	X OF DEFEN	NSE PURCHA	SES .				
Total: 643 634 638 643 648 Total: 670 637 638 643 643 648 TOTAL 637 643 652 643 648 648 TOTAL 637 643 643 652 652 652 LOTAL 15 16 16 16 15 15 16 16 16 16 16 11 1	Direct Purchases		5	S	\$	5	S	ĸ	8	
Total: 670 637 638 643 693 652 6 INDIRECT DEFENSE PUR CHASEN SECTOR 16 15 23 23 25 25 26	Indirect Purchases		999	633	634	638	635	648	672	
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR 16 15 15 15 15 46 45 46 46 48 49 20 20 21 22 23 20 20 21 22 23 27 25 25 25 26 23 21 21 23 25 26 23 21 21 23 25 26 23 21 21 23 25 26 18 17 17 18 18 18 5 4 4 5 5 5 5 6 16 16 15 15 16 16 1 0 1 1 1 1 1 1 Total: 63 6		Total:	0.09	637	638	643	639	652	119	
46 45 46 46 48 49 46 46 46 48 49 20 20 21 22 23 52 50 50 51 52 23 27 25 25 26 53 26 23 21 21 23 25 26 18 17 17 18 18 18 5 4 4 5 5 5 16 16 16 15 15 16 1 0 1 1 1 1 443 419 417 409 417 4		INDIR	ECT DEFENSE	PURCHASES	S BY PURCHA	SING SECTO	æ			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Aircraft Engines		16	15	15	15		15	16	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Aircraft Parts		46	45	46	46	48	49	51	
52 50 50 51 52 53 27 25 25 26 26 23 21 21 23 25 26 18 17 17 18 18 18 5 4 4 5 5 5 16 16 15 15 16 1 0 1 1 1 1 443 65 63 63 63 63 648 68	Ammunition		20	20	21	22	22	23	23	
27 25 25 25 26 23 21 21 23 25 26 18 17 17 18 18 18 5 4 4 5 5 5 5 16 16 16 15 15 16 16 16 16 14 44	Communication Equipment		52	20	20	51	52	53	55	
Vehicles 23 21 21 23 25 26 uilding 18 17 17 18 18 18 5 4 4 5 5 5 Electronic Equipment 16 16 15 15 16 Ordinances 1 0 1 1 1 1 Addis 665 633 634 638 638 648 68	Missiles		27	25	25	25	25	26	26	
uilding 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 5 5 5 5 5 5 5 5 5 5 5 5 5 5 16 16 16 16 16 16 16 16 1	Motor Vehicles		23	21	21	23	25	26	26	
Electronic Equipment 5 4 4 5 5 5 Ordinances 1 16 16 15 16 16 Ordinances 1 1 1 1 1 1 Total: 665 633 634 638 635 648	Shipbuilding		18	17	17	18	18	18	18	
Electronic Equipment 16 16 16 15 15 16 Ordinances 1 1 1 1 1 1 A43 419 417 417 409 417 Total: 665 633 634 638 635 648	Tanks		.	4	4	S	\$	2	\$	
Ordinances 1 0 1 1 1 1 443 419 417 417 409 417 Total: 665 633 634 638 635 648	Other Electronic Equipment		16	16	16	15	15	16	16	
443 419 417 417 409 417 Total: 665 633 634 638 635 648	Other Ordinances			0	-	_	1	_		
665 633 634 638 635 648	Other		443	419	417	417	409	417	435	
		Total:	999	633	634	638	635	648	672	

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Projected Defense Purchases of Electrical Machinery, Equipment and Supplies, n.e.c.

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		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	MARY OF DEFENSE PURCHASES	SES				
Direct Purchases		623	209	909	592	595	604	628	
Indirect Purchases		15	14	14	15	15	15	15	
	Total:	638	622	620	209	609	619	644	
	INDIR	INDIRECT DEFENSE	PURCHASES BY	BY PURCHA	PURCHASING SECTOR)R			
Aircraft Engines		0	0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	0	
Communication Equipment	,	9	9	9	9	9	9	9	
Missiles		0	0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other	į	∞	∞	∞	∞	∞	∞	∞	
	Total:	15	14	14	15	15	15	15.	

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		87	85	84	83	82	77	78	
Indirect Purchases		551	530	537	555	555	278	298	
	Total:	638	615	621	637	636	655	677	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	OR			
Aircraft Engines		4	4	4	4	4	4	4	
Aircraft Parts		16	16	17	17	18	19	20	
S Ammunition		8	ю	4	4	4	4	4	
Communication Equipment		9	9	9	9	9	7	7	
Missiles		S	4	4	4	5	5	S	
Motor Vehicles		8	က	က	4	4	4	4	
Shipbuilding		162	158	158	167	169	177	181	
Tanks		1	0	0	1	1		1	
Other Electronic Equipment			1	-		-	1	-	
Other Ordinances		0	0	0	0	0	0	0	
Other		350	334	339	347	343	358	372	
	Total:	551	530	537	555	555	578	298	

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Newspaper Publishing and Printing Rounded to Millions of 1998 Dollars

Projected Defense Purchases of

		1997	1998	1999	2000	2001	2002	2003	
		STIMMAR	MARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		-	1	1	-	-	-	-	
Indirect Purchases		657	605	587	573	552	547	550	
	Total:	658	909	588	573	552	548	550	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	SING SECTO	R			
Aircraft Engines		26	24	24	22		21	21	
Aircraft Parts		30	29	78	28	28	78	28	
9 Ammunition		31	30	30	30	30	29	29	
Communication Equipment		57	53	51	49	. 48	47	47	
Missiles		26	. 24	23	22	21	21	20	
Motor Vehicles		10	6	6	6	6	6	6	
Shipbuilding		14	13	13	13	12	12	12	
Tanks		2	2	2	2	7	2	2	

Other Electronic Equipment

Other Ordinances

Other

Total:

Projected Defense Purchases of	Industrial and Commercial Machinery, n.e.c.	
Pro	Industrial	

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	MMARY OF DEFENSE PURCHASES	SE PURCHAS	SES				
Direct Purchases		47	46	4		45	4	46	
Indirect Purchases		265	539	548	561	267	584	603	
	Total:	612	585	594	209	613	630	649	
	INDIRECT DE		FENSE PURCHASES BY PURCHASING SECTOR	BY PURCH	SING SECTO)R			
Aircraft Engines			30	31	30	30	31	32	
Aircraft Parts		51	50	52	53	55	57	09	
9 Ammunition		48	47	20	52	53	54	55	
Communication Equipment		36	35	35	35	36	37	38	
Missiles		23	. 22	22	22	22	22	23	
Motor Vehicles		26	24	25	28	30	31	32	
Shipbuilding		31	31	30	32	32	33	34	
Tanks		3	က	က	m	က	3	4	
Other Electronic Equipment		3	3	æ	က	က	3	ĸ	
Other Ordinances		2	1	2	7	7	7	2	
Other		312	294	297	301	299	310	320	
	Total:	595	539	548	561	292	584	603	

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		Project	ed Defense	Projected Defense Purchases of	4				158
			Hardware, n.e.c.	n.e.c.					
		Rounde	d to Millions o	Rounded to Millions of 1998 Dollars					
	,	1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		393	358	352	361	372	378	383	
Indirect Purchases		235	224	226	229	230	237	244	٠
	Total:	679	581	578	591	602	615	627	
	INDIRECT	r defense i	PURCHASES	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	SING SECT)R			
Aircraft Engines		ć.	3	3	8	3	3	8	
Aircraft Parts		65	63	65	99	89	70	72	
9 Ammunition		က	3	က	က	3	3	3	
Communication Equipment		7	7	2	2	2	2	2	
Missiles		6	6	6	6	6	6	6	
Motor Vehicles		6	∞	∞	6	10	10	10	
Shipbuilding		12	12	12	12	12	13	13	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		130	122	123	124	122	126	130	
	Total:	235	224	226	229	230	237	244	

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		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	UMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		2	2	2	2	1	1	1	
Indirect Purchases		582	563	574	585	599	616	644	
	Total:	583	565	575	587	009	618	646	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT)R			
Aircraft Engines		43	41	43	42	42	43	4	
Aircraft Parts		51	20	51	53	55	57	59	
9 Ammunition		41	40	43	45	4	47	48	
Communication Equipment		132	128	130	131	134	137	143	
Missiles		31	30	30	30	31	32	33	
Motor Vehicles		13	12	12	14	15	15	15	
Shipbuilding		13	12	12	13	13	13	. 13	
Tanks		2	1		2	2	7	7	
Other Electronic Equipment		30	29	53	28	78	29	30	
Other Ordinances		3	3	3	33	4	4	4	
Other		224	216	220	225	229	238	251	
	Total:	582	563	574	585	599	616	644	

		1997	1998	1999	2000	2001	2002	2003	-
		SUMMAR	JMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		7	7	9	9	9	8	9	
Indirect Purchases		572	546	540	536	522	526	541	
	Total:	579	553	546	542	528	531	547	
		NDIRECT DEFENCE	HENSE DIDCHASES BY DIBCHASTNIC SECTIOD		SECTO SIMO	g			
Aircraft Engines		16 16	1 ONCLESSES 15	16	15 15	15	15	15	
Aircraft Parts		20	70	20	70	21	21	22	
9 Ammunition		20	19	20	20	21	21	21	
Communication Equipment		39	37	37	36	36	36	37	
Missiles		17	16	16	16	16	16	16	
Motor Vehicles		7	9	9	7	7	∞	∞	
Shipbuilding		13	13	12	13	13	13	13	
Tanks		2	1	1	-	7	2	7	
Other Electronic Equipment		2	7	2	1	-	2	7	
Other Ordinances		-	1	1	1	1	•	1	
Other		435	416	409	404	389	392	405	
	Total:	572	546	540	536	522	526	541	

Projected Defense Purchases of Fabricated Metal Products, n.e.c.

		Rounde	Rounded to Millions of 1998 Dollars	1998 Dollars					
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA!	SES				
Direct Purchases		128	121	120	119	117	110	109	
Indirect Purchases		436	417	424	431	434	440	452	
	Total:	564	538	544	550	551	550	561	
	INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT)R			
Aircraft Engines		S	5	.	5	S	S	5	
Aircraft Parts		10	10	10	10	10	11	11	
Amminition		202	195	204	211	215	215	218	
Ommunication Fourinment		37	35	35	34	35	35	35	
Missipe		5	4	4	4	4	4	ν,	
Motor Vehicles		4	3	3	4	4	4	4	
Shinbuilding		19	18	18	18	18	19	19	
Tanke		10	6	6	10	10	11	11	
Other Electronic Equipment		1	1	1	1	_	1		
Other Ordinances		6	∞	6	10	11	12	12	
Other		135	127	125	124	120	123	130	
	Total:	436	417	424	431	434	440	452	

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		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES		T T T T T T T T T T T T T T T T T T T	Transfer of the Control of the Contr	
Direct Purchases		20	19	19	19	18	17	17	
Indirect Purchases		545	513	520	533	549	995	286	
	Total:	565	532	539	552	567	583	603	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	RY PURCHA	STAC SECTO	ac			
Aircraft Engines		13	12	12	12	12	12	13	
Aircraft Parts		61	59	61	62	64	99	89	
99 Ammunition		49	47	20	51	53	53	54	
Communication Equipment		53	51	51	50	51	51	53	
Missiles		14	13	13	13	13	13	14	
Motor Vehicles		21	19	19	21	23	23	24	
Shipbuilding	•	34	33	32	34	34	35	36	
Tanks		9	5	\$	9	9	9	7	
Other Electronic Equipment		4	4	4	4	4	4	4	
Other Ordinances		3	2	2	ю	m	8	က	
Other		289	267	270	277	287	299	311	
	Total:	545	513	520	533	549	999	586	į

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Machine Tools, Metal Cutting Types Projected Defense Purchases of

		1997	1998	1999	2000	2001	2002	2003	
	The state of the s								
		STIMMAR	V OF DEFEN	MMARY OF DEFENSE PURCHASES	SES				
		537	462	462	445	417	365	314	
Difect Furchases Indirect Purchases		73	29	69	0/	70	69	69	
	Total:	610	530	531	515	487	435	382	
	INDIR	INDIRECT DEFENSE	PURCHASE	FENSE PURCHASES BY PURCHASING SECTOR	SING SECT)R			
Aircraft Engines		9	9	9	9	7	7	7	
Aircraft Parts		∞	∞	∞	∞	œ	6	6	
Amminition 6		5	S	5	5	9	9	9	
Communication Equipment		-		1	1	_	1	1	
Missiles		2	7	2	2	2	2	2	
Motor Vehicles		1	1	1	1	-		-	
Shinbuilding		3	3	က	4	4	4	4	
Tanks			1	1	1		-	1	
Other Flectronic Faminment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		46	41	42	42	41	39	38	
	Total:	73	19	69	70	70	69	69	

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Dollars
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		1997	1998	1999	2000	2001	2002	2003	
		SUMMAI	SUMMARY OF DEFENSE PURCHASES	ISE PURCHA	SES				
Direct Purchases		274	267	268	271	275	276	277	
Indirect Purchases		272	260	262	260	261	265	272	
	Total:	547	527	530	530	536	541	549	
	INDIRECT		PURCHASES	BY PURCH	DEFENSE PURCHASES BY PURCHASING SECTOR	JR.			
Aircraft Engines		5	5	5	5	ν	S	9	
Aircraft Parts		55	53	55	26	28	59	62	
Ammunition		4	4	4	4	4	4	4	
Communication Equipment		10	10	10	10	10	10	10	
Missiles		192	181	180	176	175	176	179	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		9.	9	7	∞	∞	6	10	
	Total:	272	260	262	260	261	265	272	

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		Project	Projected Defense Purchases of	Purchases o	<u>ب</u>			
		Rounde	Rounded to Millions of 1998 Dollars	1998 Dollars				
		1997	1998	1999	2000	2001	2002	2003
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHAS	ES			
Direct Purchases		82	65	64	62	28	52	52
Indirect Purchases		497	448	441	443	375	404	415
	Total:	579	513	505	504	433	457	468
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	SING SECT	JR.		
Aircraft Engines		6	6	6	6	6	6	6
Aircraft Parts		6	ဗ	3	3	8	33	3
Amminition		4	4	4	4	4	4	4
6 Communication Follipment		9	9	9	9	9	9	9
Missiles		4	4	4	4	4	4	4
Motor Vehicles		12	11	11	12	13	13	14
Shinhiilding		9	\$	9	9	9	9	9
Tanks		1	0	0	_	-	-	1
Other Electronic Equipment		1	1	-	1	1	1	1
Other Ordinances		0	0	0	0	0	0	0
Other		453	405	398	398	329	357	367

Total:

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	M	Miscellaneous Fabricated Textile Products Rounded to Millions of 1998 Dollars	laneous Fabricated Textile Pr. Rounded to Millions of 1998 Dollars	extile Prod 98 Dollars	ncts			
		1997	1998	1999	2000	2001	2002	2003
		SUMMARY OF DEFENSE PURCHASES	F DEFENSE	PURCHASES				7,100
Direct Purchases		332	309	303	300	276	267	279
Indirect Purchases		198	184	185	193	189	201	209
To	Total :	530	492	488	493	465	468	488
	INDIRECT	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	CHASES BY	PURCHASIN	G SECTOR			
Aircraft Engines		-	-	_	1	-	1	1
Aircraft Parts		1	-	1	1	-	1	
Armmunition		1	-			1		1
Communication Equipment		1	-		-		-	-
Missiles		-			1	1	П	
Motor Vehicles		4	40	40	4	47	49	50
Shipbuilding		20	20	20	21	22	23	23
Tanks		0	0	0	0	0	0	0
Other Electronic Equipment		0	0	0	0	0	0	0
Other Ordinances		0	0	0	0	0	0	0
Other		129	120	120	123	115	125	130

Total:

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Projected Defense Purchases of Relays and Industrial Controls Rounded to Millions of 1998 Dollars

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHAS	SES				
Direct Purchases		41	4	4	4	51	65	06	
Indirect Purchases		461	441	440	439	439	441	449	
	Total:	205	485	484	484	489	909	539	
						ļ			
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	ISING SECT	JR			
Aircraft Engines		2	2	7	2	2	7	7	
Aircraft Parts		2	2	2	2	2	ĸ	w _i	
Amminition		4	4	4	S	5	S	5	
Communication Equipment		102	86	86	86	86	100	103	
Missiles		7	9	7	7	7	7	7	
Motor Vehicles		6	8	3	ю	3	4	4	
Shipbuilding		40	39	39	9	41	42	43	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	1	
Other Ordinances		0	0	0	0	0	0	0	
Other		299	285	284	281	279	278	282	
	Total:	461	441	440	439	439	441	449	

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Rounded to Millions of 1998 Dollars

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAE	MARY OF DEFENSE PURCHASES	ISE PURCHA	SES				
Direct Purchases		2	2	2	7	2	2	2	
Indirect Purchases		476	458	473	479	488	200	517	
	Total:	477	460	475	481	490	502	518	
	INDIRI	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	ISING SECTO)R			
Aircraft Engines		231	221	228	226	226	230	237	
Aircraft Parts		39	38	40	41	42	4	46	
Ammunition 52		45	4	46	48	49	49	50	
Communication Equipment		13	12	12	12	12	13	13	
Missiles		4	43	43	43	43	4	46	
Motor Vehicles		1	1	1	2	2	2	2	
Shipbuilding		9	9	9	9	9	7	7	
Tanks		6	∞	∞	∞	6	6	10	
Other Electronic Equipment		-	1	1	-	1	1		
Other Ordinances		2	2	2	2	7	2	2	
Other		84	82	98	8	95	66	103	
	Total:	476	458	473	479	488	500	517	

Rounded to Millions of 1998 Dollars

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHAS	SES				
Direct Purchases		225	230	234	235	249	285	344	
Indirect Purchases		234	228	230	232	231	237	246	
	Total:	459	458	463	466	481	522	290	
		INDIPECT DEFENSE PUBCHASES BY PUBCHASING SECTOR	PITECHASES	A PIRCH	CINC CECT	a			
Aircraft Engines		5	1 ONCHASES 5	5	5	5	ν.	ĸ	
Aircraft Parts		∞	∞	∞	∞	∞	6	6	
Ammunition 2		18	18	19	19	20	20	21	
Communication Equipment		13	13	13	13	13	. 14	14	
Missiles		7	7	7	7	7	7	∞	
Motor Vehicles		2	2	7	2	2	6	7	
Shipbuilding		4	4	4	S	5	S	5	
Tanks		1	0	0	_		1	1	
Other Electronic Equipment		1	1	.	_	1	1	-	
Other Ordinances		0	0	0	0	0	0	0	
Other		175	170	170	171	169	173	180	
	Total:	234	228	230	232	231	237	246	

Rounded to Millions of 1998 Dollars

		1997	1998	1999	2000	2001	2002	2003
		SUMMAR	Y OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		5	S	.	ς.	S	S	8
Indirect Purchases		443	427	432	439	438	451	470
	Total:	447	432	437	443	443	455	475
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCHA	STAC SECTO	ĕ		
Aircraft Engines		17	16	16	16	<u>91</u>	17	17
Aircraft Parts		20	19	20	70	21	22	23
Ammunition 4		20	20	21	22	23	73	24
Communication Equipment		38	37	37	37	38	900	. 04
Missiles		18	17	17	17	17	17	? <u>∝</u>
Motor Vehicles		9	9	9	7	7	7	, ∞
Shipbuilding		10	10	10	10	10	11	î 11
Tanks		1	1	-	1	-	1	2
Other Electronic Equipment		1	1	1	1	1	-	۰ -
Other Ordinances		1	1	-	1	-		•
Other		311	299	302	305	301	311	326
	Total:	443	427	432	439	438	451	470

SECTION III: INDIVIDUAL STATE PROJECTIONS

The tables in this section give state-level estimates of defense and defense-related expenditures in calendar years 1997 through 2003. A separate table presents estimates for each of the 50 states and the District of Columbia; an additional table is provided for the United States as a whole. Each table is divided into two parts, the first providing a general overview of projected spending trends over the forecast period, and the second presenting estimates for the industrial sectors projected to lead in defense or defense-related sales statewide.

The first section of each table presents estimates of direct defense purchases and pay, and of indirect defense purchases for each year of the projection period. (For purposes of comparison, projections of nondefense expenditures and of total output — total economic activity — also are provided.)³

The second section provides estimates of the dollar value of direct and indirect purchases from the five industrial sectors projected to lead in defense sales in the state, and the five projected to lead in indirect sales stemming from DoD purchases, over the forecast period.

The industrial sectors represented in the tables are aggregates of the industries covered in Section II. Industrial projections are made for 320 industries. For purposes of the state-level reports, these are grouped into 85 industrial sectors. Thus, industrial sector 44, "Aerospace," used in the state tables, includes four industries: industry 235, "Aircraft"; industry 236, "Aircraft and missile engines, propulsion units, and parts"; industry 237, "Aircraft and missile parts and auxiliary equipment, n.e.c."; and industry 21, "Guided missiles and space vehicles."

Total nondefense expenditures represent the difference between total output and total (direct plus indirect) defense purchases and pay. Note that total output is different from (and larger than) gross domestic product (GDP). The calculation of GDP nets out intermediate goods; that is, it does not include the value of intermediate products, products used to make (or included in) goods for final sale. Total output includes these intermediate products.

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	5,312	5,108	5,034	4,982	4,818	4,839	4,904	
Indirect Defense Purchases Resulting from Direct Purchases	2,365	2,276	2,280	2,287	2,250	2,297	2,372	-
Indirect Defense Purchases Resulting from Direct Pay	1,191	1,150	1,120	1,111	1,098	1,089	1,111	
Total Nondefense Expenditures	212,062	214,720	218,874	224,241	228,020	231,965	236,154	
Total Output	220,933	223,256	227,311	232,624	236,188	240,194	244,543	
Government Compensation: Pay, Military + Civilian	2,525	2,464	2,434	2,418	2,392	2,371	2,402	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	1,006	996	947	912	894	887	893	
77 Verospace	446	424	427	427	434	439	453	
Air Transportation	234	223	220	224	179	202	205	
Apparel and Household Textiles	213	190	185	185	137	158	161	
Construction	172	157	148	4	142	144	142	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	726	705	707	703	689	701	719	
Wholesale Trade	109	105	106	107	105	107	110	
Other Nonferrous Metals	. 46	68	91	92	94	96	66	
Ferrous Metals	94	88	88	68	68	68	8	
Aerospace	78	9/	79	81	82	84	87	

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	1997	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	2,505	2,446	2,404	2,407	2,271	2,460	2,689
Indirect Defense Purchases Resulting from Direct Purchases	200	481	476	476	461	463	481
Indirect Defense Purchases Resulting from Direct Pay	382	369	360	357	353	351	358
Total Nondefense Expenditures	33,594	34,281	34,678	35,171	35,591	35,835	36,016
Total Output	36,982	37,578	37,917	38,411	38,676	39,108	39,544
Government Compensation: Pay, Military + Civilian	949	927	919	914	606	904	912
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	RS			
Total Direct Expenditures (Purchases and Pay)							
	465	484	477	482	536	657	862
○ Trucking and Highway Passenger Transit ○ Trucking and Highway Passenger Transit Tra	268	254	249	256	170	213	218
Kailroads	257	244	238	245	161	202	207
Construction	178	167	160	157	156	157	157
Research Labs, Computer and Engineering Services	133	126	122	121	121	122	124
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	96	92	91	93	94	96	100
Crude Petroleum	93	8	87	85	79	75	79
Electric Utilities	36	34	35	35	35	36	37
Gas Utitities	36	34	34	34	33	34	34
Air Transportation	30	29	29	29	78	28	29

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	AGGREG	AGGREGATE MEASURES	RES			7.45		
Total Direct Expenditures (Purchases and Pay)	4,511	4,370	4,384	4,411	4,449	4,504	4,595	
Indirect Defense Purchases Resulting from Direct Purchases	2,066	2,004	2,035	2,064	2,069	2,131	2,224	
Indirect Defense Purchases Resulting from Direct Pay	1,229	1,192	1,165	1,160	1,149	1,142	1,167	
Total Nondefense Expenditures	197,302	200,626	205,124	210,763	215,114	219,626	224,374	
Total Output	205,109	208,193	212,709	218,400	222,782	227,404	232,362	
Government Compensation: Pay, Military + Civilian	2,036	2,009	1,997	1,992	1,982	1,974	1,982	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
	940	878	899	925	971	1,008	1.046	
Research Labs, Computer and Engineering Services	461	446	439	429	428	427	435	
Metal Products	327	319	336	352	363	372	382	
Construction	139	130	124	122	122	123	122	
Other Chemicals	130	128	132	133	134	141	151	
Indirect Defense Purchases Resulting from Direct Purchases								
Communications Equipment and Electronic Components	416	410	429	448	468	495	529	
Research Labs, Computer and Engineering Services	333	325	327	330	330	338	350	
Aerospace	289	282	290	290	291	294	300	
Wholesale Trade	94	8	8	91	8	92	96	
Finance and Insurance	83	81	81	82	79	82	85	

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	Rounded to M	Rounded to Millions of 1999 dollars	dollars					
	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	1,286	1,251	1,240	1,238	1,201	1,207	1,218	
Indirect Defense Purchases Resulting from Direct Purchases	894	856	859	<i>1</i> 98	851	698	006	
Indirect Defense Purchases Resulting from Direct Pay	502	484	470	465	458	453	460	
Total Nondefense Expenditures	119,168	120,500	123,029	126,495	128,723	131,145	133,690	
Total Output	121,852	123,092	125,599	129,066	131,234	133,676	136,270	
Government Compensation: Pay, Military + Civilian	803	793	789	787	783	179	782	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
∞ Aerospace	100	94	95	96	86	101	104	
Construction	75	. 71	89	<i>L</i> 9	<i>L</i> 9	<i>L</i> 9	<i>L</i> 9	
Air Transportation	69	65	65	99	52	59	09	
Food and Tobacco	47	45	4	43	41	36	37	
Shoes and Leather	34	31	30	30	21	25	26	
Indirect Defense Purchases Resulting from Direct Purchases								
Wholesale Trade	62	9	09	61	8	62	64	
Other Nonferrous Metals	59	56	57	57	58	59	61	
Metal Products	99	54	55	92	57	59	61	
Trucking and Highway Passenger Transit	4	43	43	4	40	43	45	
Ferrous Metals	41	39	40	41	42	43	4	

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	AGGRE	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	42,599	40,951	40,720	40,703	40,670	40,987	42,126	
Indirect Defense Purchases Resulting from Direct Purchases	16,342	15,782	15,842	15,924	15,734	16,095	16,718	
Indirect Defense Purchases Resulting from Direct Pay	7,783	7,531	7,336	7,275	7,194	7,137	7,278	
Total Nondefense Expenditures	1,495,279	1,520,875	1,551,138	1,587,766	1,616,929	1,646,827	1,677,681	
Total Output	1,561,987	1,585,122	1,615,020	1,651,651	1,680,508	1,711,026	1,743,783	
Government Compensation: Pay, Military + Civilian	13,954	13,633	13,484	13,407	13,283	13,185	13,330	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	TORS				
Total Direct Expenditures (Purchases and Pay)								
Aerospace	8,609	8,075	8,229	8,369	8,695	8,987	9,299	
Research Labs, Computer and Engineering Services	6,650	6,379	6,260	6,090	6,043	6,049	6,158	
Communications Equipment and Electronic Components	1,940	1,874	1,853	1,840	1,867	1,894	1,974	
Instruments	1,084	1,041	1,050	1,071	1,094	1,108	1,155	
Ships and Boats	1,072	1,036	1,028	1,077	1,083	1,124	1,140	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	4,801	4,654	4,675	4,691	4,660	4,780	4,956	
Communications Equipment and Electronic Components	1,418	1,405	1,449	1,483	1,535	1,600	1,700	
Aerospace	1,261	1,204	1,224	1,218	1,222	1,236	1,267	
Wholesale Trade	867	834	839	851	845	998	006	
Petroleum Refining Excluding Fuel Oil	642	615	604	599	554	527	543	

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	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	969'9	6,526	6,456	6,290	6,208	906'9	995'9	
Indirect Defense Purchases Resulting from Direct Purchases	2,021	1,942	1,943	1,944	1,915	1,950	2,026	
Indirect Defense Purchases Resulting from Direct Pay	1,302	1,259	1,227	1,218	1,202	1,192	1,214	
Total Nondefense Expenditures	215,602	219,342	223,848	229,351	233,362	237,729	242,373	
Total Output	225,619	229,069	233,473	238,802	242,686	247,177	252,177	
Government Compensation: Pay, Military + Civilian	2,391	2,348	2,329	2,320	2,304	2,291	2,308	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Aerospace	2,416	2,332	2,309	2,184	2,103	2,105	2,142	
Research Labs, Computer and Engineering Services	699	643	633	617	614	615	628	
Communications Services	312	330	325	328	375	479	649	
Communications Equipment and Electronic Components	271	264	262	249	241	241	246	
Construction	166	155	149	146	146	147	147	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	483	469	472	475	473	486	505	
Communications Equipment and Electronic Components	135	131	131	131	133	135	142	
Communications Services	110	109	1111	113	115	121	132	
Wholesale Trade	111	106	107	108	107	109	112	
Aerospace	114	105	104	66	95	94	95	

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	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	4,131	3,904	3,920	3,990	4,038	4,144	4,268
Indirect Defense Purchases Resulting from Direct Purchases	4,188	4,023	3,922	3,872	3,838	4,157	4,336
Indirect Defense Purchases Resulting from Direct Pay	604	583	565	558	551	545	554
Total Nondefense Expenditures	168,225	170,567	173,663	177,473	180,434	183,067	186,028
Total Output	177,144	179,071	182,065	185,888	188,855	191,909	195,181
Government Compensation: Pay, Military + Civilian	889	673	999	662	959	652	859
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Aerospace	1,023	944	876	1,033	1,112	1,169	1,218
Ships and Boats	544	521	518	531	528	547	557
Research Labs, Computer and Engineering Services	477	454	449	445	452	464	485
Real Estate	484	433	420	423	393	407	413
Other Chemicals	183	180	186	187	189	198	213
Indirect Defense Purchases Resulting from Direct Purchases							
Real Estate	2,365	2,267	2,150	2,084	2,057	2,331	2,439
Aerospace	362	358	375	382	386	391	400
Research Labs, Computer and Engineering Services	344	331	335	342	349	367	391
Finance and Insurance	121	1117	118	119	115	118	122
Communications Equipment and Electronic Components	108	105	105	106	109	114	120

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	AGGREG	AGGREGATE MEASURES	ES					1
Total Direct Expenditures (Purchases and Pay)	816	795	795	790	770	775	782	
Indirect Defense Purchases Resulting from Direct Purchases	328	315	314	317	310	316	328	
Indirect Defense Purchases Resulting from Direct Pay	211	204	199	197	195	194	198	
Total Nondefense Expenditures	48,511	48,970	49,966	51,516	52,589	53,646	54,698	
Total Output	49,866	50,283	51,274	52,821	53,864	54,931	900'95	
Government Compensation: Pay, Military + Civilian	359	353	351	350	348	346	348	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS				
Total Direct Expenditures (Purchases and Pay)					-			
Medical Instruments and Supplies	288	281	286	283	280	281	285	
Trucking and Highway Passenger Transit	31	29	28	29	19	24	25	
Construction	25	24	23	23	23	23	23	
Research Labs, Computer and Engineering Services	15	15	14	14	13	13	13	
Education and Nonprofit Organizations	10	10	10	10	10	10	10	
Indirect Defense Purchases Resulting from Direct Purchases								
Other Chemicals	68	85	85	85	84	98	89	
Finance and Insurance	33	31	31	31	29	30	31	
Petroleum Refining Excluding Fuel Oil	78	27	27	27	26	25	27	
Wholesale Trade	21	21	21	21	21	21	22	
Electric Utilities	14	13	13	14	13	14	14	

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	AGGREG,	AGGREGATE MEASURES	ŒS]
Total Direct Expenditures (Purchases and Pay)	3,375	3,262	3,204	3,178	3,061	3,042	3,101	
Indirect Defense Purchases Resulting from Direct Purchases	691	671	999	999	658	682	705	
Indirect Defense Purchases Resulting from Direct Pay	601	280	564	558	551	546	556	
Total Nondefense Expenditures	66,944	67,990	896'89	70,204	71,132	72,132	73,169	
Total Output	71,611	72,503	73,401	74,606	75,401	76,402	77,532	
Government Compensation: Pay, Military + Civilian	1,485	1,429	1,401	1,386	1,364	1,347	1,377	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS				
Total Direct Expenditures (Purchases and Pay)								
Communications Services	809	592	585	290	583	554	571	
% Research Labs, Computer and Engineering Services	490	475	466	455	451	448	453	
Water Transportation	364	355	347	345	275	309	311	
Construction	66	95	93	91	91	91	92	
Computers	20	49	49	49	49	48	49	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	353	346	348	350	348	354	364	
Real Estate	120	115	109	105	104	118	123	
Communications Services	35	34	34	34	34	35	38	
Printing and Publishing	26	25	25	24	24	24	25	
Electric Utilities	22	22	22	22	22	23	24	

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	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	14,766	14,354	14,286	14,228	14,132	14,224	14,473	
Indirect Defense Purchases Resulting from Direct Purchases	4,837	4,689	4,727	4,787	4,748	4,904	5,140	
Indirect Defense Purchases Resulting from Direct Pay	4,447	4,312	4,212	4,189	4,153	4,131	4,222	
Total Nondefense Expenditures	629,238	641,086	655,128	672,517	686,521	701,662	716,962	
Total Output	653,303	664,456	998'369	695,736	709,569	724,939	740,815	
Government Compensation: Pay, Military + Civilian	7,315	7,218	7,179	7,159	7,122	7,090	7,120	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Aerospace	1,982	1,874	1,895	1,900	1,943	1,985	2,047	
Research Labs, Computer and Engineering Services	1,663	1,596	1,576	1,552	1,564	1,586	1,641	
Communications Equipment and Electronic Components	808	786	780	753	740	741	758	
Metal Products	394	381	395	409	418	427	436	
Construction	400	374	358	351	350	353	352	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	1,201	1,165	1,177	1,195	1,206	1,253	1,321	
Communications Equipment and Electronic Components	377	370	375	380	394	411	439	
Wholesale Trade	371	359	364	371	370	381	398	
Finance and Insurance	772	268	270	274	267	277	290	
Communications Services	242	237	239	242	243	254	275	

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	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	10,418	10,063	9,982	68,6	6,667	9,691	9,838	
Indirect Defense Purchases Resulting from Direct Purchases	3,271	3,151	3,166	3,184	3,129	3,216	3,351	
Indirect Defense Purchases Resulting from Direct Pay	2,433	2,357	2,302	2,290	2,269	2,256	2,305	
Total Nondefense Expenditures	397,097	404,626	414,285	426,701	436,107	445,967	456,312	
Total Output	413,215	420,193	429,731	442,010	451,168	461,126	471,801	
Government Compensation: Pay, Military + Civilian	4,826	4,719	4,671	4,647	4,609	4,580	4,624	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Aerospace	3,523	3,369	3,367	3,263	3,227	3,267	3,344	
Research Labs, Computer and Engineering Services	446	431	425	418	421	423	434	
Construction	223	208	199	195	194	196	195	
Ships and Boats	182	176	175	184	185	192	195	
Trucking and Highway Passenger Transit	130	124	121	124	83	103	106	
Indirect Defense Purchases Resulting from Direct Purchases								
Aerospace	354	346	352	341	339	342	350	
Research Labs, Computer and Engineering Services	322	315	317	322	325	334	349	
Wholesale Trade	270	261	264	269	267	274	285	
Communications Services	213	216	224	234	241	258	287	
Textiles (Except Knitting)	202	183	181	183	160	171	171	

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	AGGREG.	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	3,587	3,474	3,418	3,391	3,318	3,303	3,347	
Indirect Defense Purchases Resulting from Direct Purchases	519	501	499	501	492	504	521	
Indirect Defense Purchases Resulting from Direct Pay	1,062	1,026	1,002	966	985	978	866	
Total Nondefense Expenditures	82,161	83,743	85,340	86,992	88,281	809,68	91,098	
Total Output	87,329	88,745	90,258	91,881	93,077	94,393	95,964	
Government Compensation: Pay, Military + Civilian	2,618	2,545	2,512	2,495	2,471	2,452	2,484	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS				
Total Direct Expenditures (Purchases and Pay)								
Construction	301	286	277	272	272	273	274	
Research Labs, Computer and Engineering Services	179	171	165	162	162	161	163	
Trucking and Highway Passenger Transit	68	84	82	85	56	70	72	
Electric Utilities	54	53	53	54	54	54	55	
Petroleum Refining Excluding Fuel Oil	52	20	49	84	45	4	42	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	129	125	124	125	125	127	131	
Electric Utilities	73	70	71	72	71	73	76	
Air Transportation	41	39	9	41	41	42	4	
Eating and Drinking Places	31	29	29	29	27	78	29	
Wholesale Trade	28	27	7.7	27	27	28	29	

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Total Direct Expenditures (Purchases and Pay)	526	511	504	498	492	485	489	
Indirect Defense Purchases Resulting from Direct Purchases	494	478	486	491	488	497	519	
Indirect Defense Purchases Resulting from Direct Pay	250	242	237	236	234	233	238	
Total Nondefense Expenditures	55,000	55,804	57,243	58,939	60,075	61,299	62,549	
Total Output	56,271	57,036	58,470	60,164	61,289	62,515	63,796	
Government Compensation: Pay, Military + Civilian	375	370	368	368	366	365	366	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS				
Total Direct Expenditures (Purchases and Pay)								
Electric Utilities	64	58	54	50	48	4	43	
6 Construction	29	27	26	26	26	26	26	
Research Labs, Computer and Engineering Services	13	13	12	12	12	12	12	
Communications Equipment and Electronic Components	∞	∞	∞	7	7	7	7	
Food and Tobacco	7	7	7	7	9	9	9	
Indirect Defense Purchases Resulting from Direct Purchases						•		
Communications Equipment and Electronic Components	131	136	147	156	163	172	183	
Electric Utilities	98	92	73	89	63	59	8	
Wholesale Trade	35	34	34	35	35	35	37	
Computers	21	20	20	20	20	20	20	
Finance and Insurance	20	19	19	19	19	19	20	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	4,235	4,068	4,022	3,999	3,886	3,884	3,944	
Indirect Defense Purchases Resulting from Direct Purchases	4,835	4,621	4,598	4,607	4,499	4,577	4,728	
Indirect Defense Purchases Resulting from Direct Pay	2,137	2,064	2,003	1,981	1,956	1,938	1,973	
Total Nondefense Expenditures	635,916	642,219	651,604	665,185	675,181	686,505	698,176	
Total Output	647,124	652,973	662,229	675,774	685,524	906'969	708,823	
Government Compensation: Pay, Military + Civilian	2,224	2,172	2,149	2,137	2,119	2,104	2,126	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	305	294	288	279	275	273	274	
6 Construction	185	175	169	166	165	166	166	
Trucking and Highway Passenger Transit	175	166	162	167	111	139	143	
Aerospace	175	161	165	172	184	191	198	
Food and Tobacco	154	149	145	142	136	118	123	
Indirect Defense Purchases Resulting from Direct Purchases								
Wholesale Trade	424	406	406	409	403	410	423	
Finance and Insurance	343	329	328	329	316	325	337	
Communications Equipment and Electronic Components	328	311	303	294	292	292	302	
Metal Products	310	296	298	303	305	312	321	
Petroleum Refining Excluding Fuel Oil	288	275	269	266	246	236	247	

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	AGGREG	AGGREGATE MEASURES	RES					1
Total Direct Expenditures (Purchases and Pay)	2,836	2,720	2,690	2,684	2,648	2,624	2,679	
Indirect Defense Purchases Resulting from Direct Purchases	2,794	2,670	2,671	2,690	2,659	2,710	2,798	
Indirect Defense Purchases Resulting from Direct Pay	1,068	1,036	1,012	1,008	1,000	966	1,020	
Total Nondefense Expenditures	322,903	325,189	331,385	340,593	346,578	353,266	360,044	
Total Output	329,606	331,619	337,763	346,979	352,891	359,602	366,546	
Government Compensation: Pay, Military + Civilian	1,254	1,211	1,189	1,177	1,158	1,143	1,167	
LARGE	ST PURCHASE	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Communications Equipment and Electronic Components	286	279	772	275	<i>TT</i> 2	276	281	
Research Labs, Computer and Engineering Services	284	276	272	266	265	. 263	267	
	261	240	242	241	246	250	257	
Petroleum Refining Excluding Fuel Oil	64	61	61	61	58	53	26	
Engines and Turbines	99	61	63	73	81	85	85	
Indirect Defense Purchases Resulting from Direct Purchases								
Ferrous Metals	343	321	318	319	318	320	322	
Other Nonferrous Metals	226	215	217	221	226	233	241	
Research Labs, Computer and Engineering Services	205	202	203	205	204	208	215	
Metal Products	200	193	197	202	204	209	216	
Wholesale Trade	157	151	152	154	152	155	161	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					1
Total Direct Expenditures (Purchases and Pay)	852	813	908	795	789	787	803	
Indirect Defense Purchases Resulting from Direct Purchases	798	763	761	191	754	772	008	
Indirect Defense Purchases Resulting from Direct Pay	421	406	393	388	383	378	384	
Total Nondefense Expenditures	140,729	141,871	143,984	147,448	149,983	152,621	155,307	
Total Output	142,801	143,854	145,945	149,398	151,909	154,558	157,294	
Government Compensation: Pay, Military + Civilian	272	268	266	265	264	262	264	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
	245	237	234	230	231	236	246	
56 Instruments	87	83	84	83	83	85	88	
Metal Products	48	46	47	46	46	45	4	
Research Labs, Computer and Engineering Services	38	35	35	34.	34	35	36	
Construction	33	32	31	30	30	31	31	
Indirect Defense Purchases Resulting from Direct Purchases								
Wholesale Trade	93	8	96	91	8	92	96	
Finance and Insurance	89	65	64	64	62	64	99	
Metal Products	50	48	48	49	50	51	53	
Communications Equipment and Electronic Components	45	4	4	4	45	46	49	
Other Nonferrous Metals	47	4	4	45	46	47	48	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	2,172	2,107	2,083	2,060	2,031	2,008	2,036	
Indirect Defense Purchases Resulting from Direct Purchases	1,369	1,323	1,331	1,343	1,318	1,343	1,395	
Indirect Defense Purchases Resulting from Direct Pay	681	658	640	635	627	622	634	
Total Nondefense Expenditures	134,055	135,512	137,851	141,029	143,475	146,199	148,971	
Total Output	138,278	139,601	141,907	145,068	147,453	150,173	153,038	
Government Compensation: Pay, Military + Civilian	1,173	1,151	1,143	1,138	1,132	1,127	1,134	
LARGEST	-	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Aerospace	448	428	428	428	433	430	442	
Research Labs, Computer and Engineering Services	105	101	66	76	76	96	26	
	88	81	77	76	75	9/	9/	
Food and Tobacco	59	57	. 55	54	52	45	47	
Petroleum Refining Excluding Fuel Oil	52	51	47	34	31	20	23	
Indirect Defense Purchases Resulting from Direct Purchases								
Aerospace	295	291	302	309	317	325	335	
Petroleum Refining Excluding Fuel Oil	108	104	102	101	93	88	93	
Automobile Repairs	92	68	68	91	98	8	94	
Wholesale Trade	84	81	81	82	83	84	87	
Crude Petroleum	78	74	72	11	99	62	99	

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	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	2,820	2,742	2,706	2,681	2,626	2,609	2.638	
Indirect Defense Purchases Resulting from Direct Purchases	1,690	1,628	1,629	1,642	1,620	1,645	1,702	
Indirect Defense Purchases Resulting from Direct Pay	1,033	866	973	996	955	949	896	
Total Nondefense Expenditures	216,813	218,914	223,129	228,520	232,028	236,059	240,030	
Total Output	222,358	224,284	228,439	233,810	237,232	241,264	245,340	
Government Compensation: Pay, Military + Civilian	1,888	1,846	1,828	1,820	1,807	1,797	1,813	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)		•						
Research Labs, Computer and Engineering Services	303	299	295	291	291	287	. 290	
6 Construction	129	119	113	1111	110	111	110	
Air Transportation	98	82	81	83	99	74	92	
Apparel and Household Textiles	53	49	48	49	42	43	4	
Petroleum Refining Excluding Fuel Oil	41	39	36	25	21	11	12	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	219	218	220	224	224	227	233	
Petroleum Refining Excluding Fuel Oil	120	116	114	113	105	101	104	
Other Nonferrous Metals	105	100	101	103	106	109	112	
Wholesale Trade	66	95	96	97	96	76	101	
Coal Mining	98	83	82	81	80	80	83	

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	AGGREG	AGGREGATE MEASURES	RES		1000		
Total Direct Expenditures (Purchases and Pay)	4,026	3,887	3,832	3,856	3,772	3,755	3,816
Indirect Defense Purchases Resulting from Direct Purchases	2,249	2,169	2,149	2,148	2,047	2,032	2,122
Indirect Defense Purchases Resulting from Direct Pay	945	913	889	882	872	998	882
Total Nondefense Expenditures	214,745	218,796	221,349	225,138	228,274	231,604	235,154
Total Output	221,959	225,759	228,213	232,017	234,958	238,248	241,967
Government Compensation: Pay, Military + Civilian	1,471	1,443	1,431	1,425	1,416	1,408	1,418
LARGI	GEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Ships and Boats	116	943	. 936	686	966	1,036	1,051
Petroleum Refining Excluding Fuel Oil	429	413	401	384	326	310	324
Fuel Oil	304	292	288	292	275	254	265
Construction	275	247	231	226	223	227	224
Other Chemicals	127	125	130	131	132	140	150
Indirect Defense Purchases Resulting from Direct Purchases							
Crude Petroleum	540	522	513	207	475	451	481
Petroleum Refining Excluding Fuel Oil	490	472	466	463	431	412	427
Other Chemicals	140	134	134	134	132	134	139
Wholesale Trade	108	104	105	106	106	108	112
Fuel Oil	68	85	83	82	72	74	92

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	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	2,342	2,258	2,238	2,316	2.292	2.359	2.396	
Indirect Defense Purchases Resulting from Direct Purchases	381	367	368	371	364	372	387	
Indirect Defense Purchases Resulting from Direct Pay	338	328	320	318	316	314	321	
Total Nondefense Expenditures	59,315	60,134	61,156	62,513	63,499	64,552	65,680	
Total Output	62,376	63,088	64,083	65,519	66,470	67,598	68,784	
Government Compensation: Pay, Military + Civilian	626	209	865	593	585	578	588	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	RS				
Total Direct Expenditures (Purchases and Pay)								
	1,440	1,390	1,381	1,462	1,472	1,534	1.557	
Metal Products	<i>L</i> 9	65	89	71	73	74	92	
Trucking and Highway Passenger Transit	28	55	53	55	36	46	47	
Construction	9	38	37	36	36	36	36	
Medical Instruments and Supplies	31	27	56	27	19	23	23	
Indirect Defense Purchases Resulting from Direct Purchases								
Communications Equipment and Electronic Components	63	49	99	89	71	73	78	
Paper	4	4	4	4	42	42	4	
Wholesale Trade	34	33	33	33	33	33	34	
Finance and Insurance	23	22	22	22	21	21	22	
Aerospace	19	70	21	21	21	22	133	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	9,428	9,093	8,980	8,909	8,780	8,805	9,034	
Indirect Defense Purchases Resulting from Direct Purchases	3,251	3,138	3,141	3,152	3,111	3,181	3,297	
Indirect Defense Purchases Resulting from Direct Pay	1,811	1,752	1,708	1,697	1,680	1,670	1,705	
Total Nondefense Expenditures	298,481	303,404	309,244	316,219	321,901	327,884	334,048	
Total Output	312,969	317,386	323,073	329,976	335,471	341,539	348,082	
Government Compensation: Pay, Military + Civilian	3,886	3,763	3,702	3,669	3,617	3,577	3,642	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	2,234	2,155	2,120	2,066	2,054	2,051	2,087	
be Aerospace Aerospace	465	436	445	454	473	487	504	
Communications Services	426	420	415	418	424	431	479	
Construction	357	337	325	319	319	321	320	
Communications Equipment and Electronic Components	338	328	326	322	324	324	332	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	1,613	1,572	1,583	1,592	1,584	1,621	1,679	
Wholesale Trade	138	133	133	135	135	138	1	
Gas Utilities	140	124	117	109	102	94	94	
Automobile Repairs	116	112	112	114	109	114	118	
Electric Utilities	66	96	26	86	1.6	100	104	

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Total Direct Expenditures (Purchases and Pay)	7,933	7,572	7,544	7,493	7,530	7,648	7,886
Indirect Defense Purchases Resulting from Direct Purchases	4,580	4,417	4,443	4,464	4,445	4,599	4,827
Indirect Defense Purchases Resulting from Direct Pay	1,088	1,048	1,016	1,003	886	7.1.6	992
Total Nondefense Expenditures	357,346	363,386	370,508	379,378	386,391	393,498	400,827
Total Output	370,946	376,423	383,511	392,337	399,353	406,720	414,531
Government Compensation: Pay, Military + Civilian	966	696	926	948	936	927	941
LARGEST	ST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	FRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Research Labs, Computer and Engineering Services	2,912	2,776	2,733	2,661	2,650	2,682	2,761
Aerospace	1,657	1,551	1,584	1,617	1,687	1,749	1,811
Communications Equipment and Electronic Components	700	<i>LL</i> 9	029	099	664	675	704
Instruments	356	341	343	346	351	356	370
Metal Products	254	244	253	260	265	269	274
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	2,102	2,025	2,041	2,050	2,044	2,119	2,222
Communications Equipment and Electronic Components	401	391	394	398	406	417	439
Finance and Insurance	202	196	197	200	193	200	209
Wholesale Trade	196	188	189	192	190	195	203
Aerospace	149	141	145	142	141	142	144

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	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	2,500	2,425	2,446	2,476	2,495	2,507	2,558	
Indirect Defense Purchases Resulting from Direct Purchases	2,072	1,993	1,995	2,009	1,977	2,016	2,090	
Indirect Defense Purchases Resulting from Direct Pay	611	759	742	739	736	735	755	
Total Nondefense Expenditures	258,853	262,747	268,169	275,241	280,927	287,121	293,599	
Total Output	264,207	267,926	273,355	280,467	286,137	292,382	299,005	
Government Compensation: Pay, Military + Civilian	441	434	431	429	426	423	426	
LARGEST	EST PURCHASE	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Metal Products	908	785	824	862	888	606	930	
Research Labs, Computer and Engineering Services	362	349	342	332	328	326	330	
	319	311	304	304	304	299	304	
Other Electrical Equipment	83	82	81	80	81	83	68	
Aerospace	83	78	08	82	87	68	93	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	261	254	256	256	253	258	366	
Wholesale Trade	178	173	174	177	176	181	189	
Communications Equipment and Electronic Components	160	156	157	159	164	169	178	
Finance and Insurance	116	112	112	113	109	112	117	
Printing and Publishing	115	110	110	109	108	109	113	

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	1998	1999	2000	2001	2002	2003
	AGGREGATE MEASURES	JRES				
Total Direct Expenditures (Purchases and Pay)	8 4,117	4,071	4,129	4,051	4,130	4,201
ect Purchases		940	949	933	954	666
		641	635	627	621	632
			000 000	101	100 101	131 210
Total Nondefense Expenditures 119,495		122,653	125,373	127,192	173,171	151,210
Total Output	7 126,398	128,283	131,062	132,779	134,800	137,016
Government Compensation: Pay, Military + Civilian 1,466	6 1,432	1,416	1,408	1,396	1,385	1,401
LARGEST PURCHASI	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)						
Shins and Boats	689,1	1,672	1,733	1,740	1,795	1,821
Decearch I she Computer and Engineering Services		196	198	207	217	232
		157	156	112	131	133
		125	129	136	139	14
		102	100	66	100	100
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Culabo		146	153	091	171	187
ing Services	_	140	133	3	1/1	101
Petroleum Refining Excluding Fuel Oil		91	3	84	81	60
Wholesale Trade 55	55 53	53	54	53	54	55
		4	45	46	47	48
Eating and Drinking Places 37	35	34	34	33	33	34

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		AGGREG	AGGREGATE MEASURES	RES				
	Total Direct Expenditures (Purchases and Pay)	6,627	6,286	6,295	6,336	6,444	6,548	6,718
	Indirect Defense Purchases Resulting from Direct Purchases	2,961	2,853	2,862	2,880	2,843	2,912	3,010
	Indirect Defense Purchases Resulting from Direct Pay	1,250	1,210	1,178	1,168	1,155	1,147	1,170
	Total Nondefense Expenditures	296,069	299,674	305,106	312,691	317,705	323,572	329,702
	Total Output	306,908	310,024	315,442	323,075	328,148	334,179	340,601
	Government Compensation: Pay, Military + Civilian	1,887	1,837	1,813	1,801	1,780	1,764	1,789
	LARGE	GEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUS	TRIAL SECT	ORS			
	Total Direct Expenditures (Purchases and Pay)							
	Aerospace	2,358	2,177	2,252	2,366	2,536	2,661	2,771
102	Research Labs, Computer and Engineering Services	1,457	1,389	1,359	1,304	1,274	1,268	1,279
	Metal Products	192	184	186	185	185	182	181
	Construction	138	128	123	120	120	121	120
	Communications Services	82	62	78	77	75	73	74
	Indirect Defense Purchases Resulting from Direct Purchases							
	Research Labs, Computer and Engineering Services	1,052	1,014	1,015	1,005	983	1,002	1,029
	Aerospace	243	242	249	262	274	284	294
	Wholesale Trade	178	171	173	175	174	177	183
	Finance and Insurance	124	120	119	120	116	120	125
	Metal Products	118	114	117	120	122	125	130
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Montana Summary Rounded to Millions of 1999 dollars

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		1997	1998	1999	2000	2001	2002	2003	1 1
		AGGREG/	AGGREGATE MEASURES	ES					
	Total Direct Expenditures (Purchases and Pay)	425	416	412	412	405	403	406	
	Indirect Defense Purchases Resulting from Direct Purchases	232	222	222	223	216	219	227	
	Indirect Defense Purchases Resulting from Direct Pay	213	205	200	198	195	193	196	
	Total Nondefense Expenditures	32,429	32,853	33,393	34,148	34,638	35,222	35,829	
	Total Output	33,298	33,696	34,226	34,980	35,454	36,037	36,659	
	Government Compensation: Pay, Military + Civilian	320	315	314	313	311	310	312	
	LARGES	LARGEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	RIAL SECT	ORS				
	Total Direct Expenditures (Purchases and Pay)								
	Construction	22	21	20	20	20	20	20	
103	Petroleum Refining Excluding Fuel Oil	15	14	14	14	13	12	13	
3	Fuel Oil	13	13	13	13	12	11	12	
	Electric Utilities	6	6	6	6	6	6	6	
	Research Labs, Computer and Engineering Services	9	9	2	5	5	S	2	
	Indirect Defense Purchases Resulting from Direct Purchases								
	Petroleum Refining Excluding Fuel Oil	24	24	23	23	21	21	22	
	Wholesale Trade	22	21	21	21	21	21	22	
	Finance and Insurance	13	13	13	13	12	13	13	
	Crude Petroleum	13	12	12	12	11	10	11	
	Other Nonferrous Metals	13	12	12	12	13	13	13	

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		TOTAL TOTAL	COLLEGE					
	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	1,151	1,124	1,112	1,104	1,093	1,078	1.089	
Indirect Defense Purchases Resulting from Direct Purchases	625	603	009	603	591	905	624	
Indirect Defense Purchases Resulting from Direct Pay	457	443	432	428	423	420	429	
Total Nondefense Expenditures	89,198	90,385	92,087	94,350	95,868	97,695	99,592	
Total Output	91,431	92,555	94,231	96,486	97,975	99,795	101,733	
Government Compensation: Pay, Military + Civilian	771	758	752	750	746	742	747	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
	147	143	140	138	138	136	138	
Food and Tobacco	93	8	88	98	82	71	75	
Construction	43	41	4	39	39	39	39	
Computers	14	13	13	13	13	13	13	
Aerospace	13	13	13	13	13	13	14	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	106	104	105	106	106	108	111	
Wholesale Trade	09	58	58	59	58	59	61	
Communications Equipment and Electronic Components	59	57	54	53	53	52	54	
Finance and Insurance	49	48	48	48	4	48	20	
Communications Services	36	36	36	36	36	38	41	

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Acide Recard Laboration Recarding from Direct Purchases and Pay)		Kounded to M	ounded to Millions of 1999 dollars	dollars				
AGGREGATE MEASURES Total Direct Expenditures (Purchases and Pay) 1,136 1,116 1,1107 1,102 1,094 1,091 1,116 1,1107 1,102 1,094 1,091 1,116 1,1107 1,102 1,094 1,091 1,116 1,1107 1,102 1,094 1,091 1,117 1,102 1,094 1,091 1,117 1,102 1,094 1,091 1,101 1,102 1,094 1,091 1,101 1,102 1,1094 1,091 1,101 1,102 1,1094 1,1091 1,101 1,102 1,1094 1,1091 1,101 1,102 1,1094 1,1091 1,		1997	1998	1999	2000	2001	2002	2003
Total Direct Expenditures (Purchases and Pay)		AGGREG	ATE MEASU	RES				
Indirect Defense Purchases Resulting from Direct Pyrchases Resulting from Direct Pyrchases Resulting from Direct Pyy 70, 22 71, 24 75 75 75 75 75 75 75 75 75 75 75 75 75	Total Direct Expenditures (Purchases and Pay)	1,136	1,116	1,107	1,102	1,094	1,091	1,093
Indirect Defense Purchases Resulting from Direct Pay 70223 71,943 74,298 76,811 78,668 80,837 704al Output 72,556 74,228 74,228 76,557 79,065 80,900 83,074 Government Compensation: Pay, Military + Civilism 833 826 824 823 82,090 83,074 Covernment Compensation: Pay, Military + Civilism 1. LARGEST PURCHASES BY INDUSTRIALI SECTIORS Total Direct Expenditures (Purchases and Pay) Research Lab, Computer and Engineering Services 62 57 83 83 83 83 83 83 83 83 83 83 83 83 83	Indirect Defense Purchases Resulting from Direct Purchases	434	420	421	425	418	429	446
Total Output 70,223 71,943 74,298 76,811 78,668 80,387 Total Output LARGEST PURCHASES BY INDUSTRIAL SECTORS Covernment Compensation: Pay, Military + Civilian 833 826 824 829 818 LARGEST PURCHASES BY INDUSTRIAL SECTORS LARGEST PURCHASES BY INDUSTRIAL SECTORS Construction Metal Products 62 57 53 52 53 Metal Products 62 57 53 52 53 Metal Products 15 15 15 15 Water and Sanitation 15 15 15 15 Indirect Defense Purchases Resulting from Direct Purchases 76 75 76 76 Research Labs, Computer and Bagineering Services 26 25 25 25 Nondersack Purchases Resulting from Direct Purchases 26 25 25 25 Nondersack Sulting Nondersack Sulting </td <td>Indirect Defense Purchases Resulting from Direct Pay</td> <td>762</td> <td>742</td> <td>730</td> <td>726</td> <td>720</td> <td>717</td> <td>733</td>	Indirect Defense Purchases Resulting from Direct Pay	762	742	730	726	720	717	733
Total Output T02,556 74,221 76,557 79,065 80,900 83,074 Government Compensation: Pay, Military + Civilian 833 826 824 823 820 818 LARGEST PURCHASES BY INDUSTRIAL SECTORS LARGEST PURCHASES BY INDUSTRIAL SECTORS Construction 62 57 53 52 53 54 54 54 54 54 54 54 54 54 54 <td< td=""><td>Total Nondefense Expenditures</td><td>70,223</td><td>71,943</td><td>74,298</td><td>76,811</td><td>78,668</td><td>80,837</td><td>83,238</td></td<>	Total Nondefense Expenditures	70,223	71,943	74,298	76,811	78,668	80,837	83,238
Construction Pay, Military + Civilian Research Labs, Computer and Engineering Services LARCEST PURCHASES BY INDUSTRIAL SECTORS Research Labs, Computer and Engineering Services Labs, Comp	Total Output	72,556	74,221	76,557	79,065	80,900	83,074	85,510
Total Direct Expenditures (Purchases and Pay) Research Labs, Computer and Engineering Services 105 103 101 99 98 97 Construction 35 34 34 33 33 32 Metal Products 20 19 19 19 19 19 Communications Equipment and Electronic Components 20 19 19 19 19 19 Water and Sanitation 15 15 15 15 15 15 15 Research Labs, Computer and Engineering Services 76 75 75 76 76 77 Nonferrous Metals Mining 20 29 29 29 29 29 29 Wholesale Trade 20 25 25 25 25 26 Communications Services 20 21 22 21 22 22	Government Compensation: Pay, Military + Civilian	833	826	824	823	820	818	819
Total Direct Expenditures (Purchases and Pay) 105 103 101 99 98 97 Research Labs, Computer and Engineering Services 62 57 53 52 53 54 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 18 15 20 20	LARGI	EST PURCHASE	S BY INDUST	RIAL SECT	ORS			
Research Labs, Computer and Engineering Services 105 103 101 99 98 97 Construction Construction 35 34 34 33 32 53 54 53 53 53 54 54 54 15 25 25 25 25 25 25 25 25 25 25 25 25	Total Direct Expenditures (Purchases and Pay)							
Construction 62 57 53 52 53 Metal Products 35 34 34 33 33 32 Communications Equipment and Electronic Components 15 15 19 19 19 19 19 Mater and Sanitation 15 15 15 15 15 15 Indirect Defense Purchases Resulting from Direct Purchases 76 75 76 76 77 Research Labs, Computer and Engineering Services 62 60 61 61 61 64 Wholessel Trade Communications Services 26 25 25 25 26 Construction 22 21 22 21 22 21 22	Research Labs, Computer and Engineering Services	105	103	101	66	86	<i>L</i> 6	76
Metal Products 35 34 34 33 32 Communications Equipment and Electronic Components 20 19 18 12 </td <td></td> <td>62</td> <td>57</td> <td>53</td> <td>52</td> <td>52</td> <td>53</td> <td>52</td>		62	57	53	52	52	53	52
20 19 19 19 19 19 15 15 15 15 15 15 15 15 15 15 76 75 76 76 77 62 60 61 61 62 64 30 29 29 29 30 26 25 25 25 26 22 21 22 22 22 23 21 22 22		35	34	34	33	33	32	32
15 15 15 15 15 76 75 76 76 77 62 60 61 61 62 64 30 29 29 29 30 26 25 25 25 26 22 21 22 22 22 23 24 22 21 22	Communications Equipment and Electronic Components	20	19	19	19	19	19	19
76 75 76 76 77 62 60 61 61 62 64 30 29 29 29 29 30 26 25 25 25 26 22 21 22 21 22 23 21 22 21 22	Water and Sanitation	15	15	15	15	15	15	15
nd Engineering Services 76 75 76 76 77 62 60 61 62 64 30 29 29 29 29 30 29 29 29 30 26 25 25 25 26 22 21 22 21 22	Indirect Defense Purchases Resulting from Direct Purchases							
62 60 61 61 62 64 30 29 29 29 29 30 26 25 25 25 25 26 22 21 22 21 22 22 21 22 21 22	Research Labs, Computer and Engineering Services	9/	75	75	9/	9/	77	78
30 29 29 29 30 26 25 25 25 25 26 22 21 22 21 22 30 22 25 26 26 4 22 22 21 22 5 24 21 22 22 6 24 24 22 22 7 24 24 22 22 8 25 26 26 26 9 26 27 21 22 9 26 27 21 22 9 27 28 26 26 9 26 27 21 22 10 27 28 27 21 22 10 27 28 28 26 26 10 28 28 28 26 26 10 28 28 28 26 26 10 28 28 28 26 26 10 28 28 28 26 26 27 10 28 28 28 28 26 27	Nonferrous Metals Mining	62	9	61	61	62	64	<i>L</i> 9
26 25 25 25 26 22 21 22 21 22 22 21 22 21 22	Wholesale Trade	30	29	29	29	29	30	31
22 21 22 21 22	Communications Services	26	25	25	25	25	26	28
	Construction	22	21	22	22	21	22	22
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New Hampshire Summary	Rounded to Millions of 1000 dollars
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	1997	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	784	763	758	749	744	746	762
Indirect Defense Purchases Resulting from Direct Purchases	497	478	480	484	482	496	515
Indirect Defense Purchases Resulting from Direct Pay	235	227	221	219	216	214	218
Total Nondefense Expenditures	54,945	55,710	56,794	58,263	59,396	60,582	61,785
Total Output	56,461	57,178	58,253	59,715	60,838	62,038	63,281
Government Compensation: Pay, Military + Civilian	269	266	265	264	263	261	262
LARGE	GEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	TRIAL SECT	ORS			١
Total Direct Expenditures (Purchases and Pay)							
Communications Equipment and Electronic Components	163	159	158	153	150	150	153
Research Labs, Computer and Engineering Services	93	8	88	98	82	84	98
Instruments	64	62	62	61	62	62	63
Construction	30	27	26	26	76	26	26
Other Nonelectrical Machinery	26	26	27	28	28	29	29
Indirect Defense Purchases Resulting from Direct Purchases							
Communications Equipment and Electronic Components	70	89	69	70	72	75	79
Research Labs, Computer and Engineering Services	19	65	99	99	65	<i>L</i> 9	69
Other Nonferrous Metals	31	29	30	30	31	32	33
Wholesale Trade	28	27	27	28	27	28	29
Other Nonelectrical Machinery	24	23	23	23	23	24	24

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	1997	1998	1999	2000	2001	2002	2003	1 1
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	6,099	5,871	5,796	5,764	5,597	5,768	6,057	
Indirect Defense Purchases Resulting from Direct Purchases	3,857	3,697	3,704	3,752	3,724	3,849	4,048	
Indirect Defense Purchases Resulting from Direct Pay	1,467	1,415	1,374	1,357	1,340	1,326	1,350	
Total Nondefense Expenditures	427,521	433,061	440,488	450,188	457,825	465,985	474,380	
Total Output	438,942	444,041	451,358	461,058	468,485	476,925	485,832	
Government Compensation: Pay, Military + Civilian	1,712	1,655	1,626	1,610	1,586	1,566	1,598	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	1,419	1,352	1,344	1,352	1,402	1,459	1,553	
50 Water Transportation	516	502	492	491	386	433	438	
Communications Equipment and Electronic Components	372	360	357	345	341	343	353	
Aerospace	349	334	333	321	315	318	324	
Instruments	267	254	255	252	251	254	262	
Indirect Defense Purchases Resulting from Direct Purchases					•			
Research Labs, Computer and Engineering Services	1,024	284	1,004	1,042	1,081	1,153	1,250	
Wholesale Trade	345	331	332	335	332	339	351	
Other Chemicals	257	243	241	240	235	238	247	
Communications Services	240	232	232	232	232	240	259	
Finance and Insurance	211	203	203	205	198	205	214	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	2,322	2,251	2,220	2,192	2,157	2,137	2,161	
Indirect Defense Purchases Resulting from Direct Purchases	925	905	916	925	912	929	696	
Indirect Defense Purchases Resulting from Direct Pay	622	601	586	582	576	573	586	
Total Nondefense Expenditures	75,190	76,647	78,362	80,464	81,924	83,656	85,665	
Total Output	79,059	80,405	82,084	84,163	85,569	87,294	89,380	
Government Compensation: Pay, Military + Civilian	1,304	1,276	1,263	1,257	1,247	1,239	1,250	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	456	438	430	415	407	404	407	
Construction	149	141	135	133	132	133	133	
Finance and Insurance	58	99	55	56	54	49	52	
Aerospace	59	26	56	. 56	57	58	09	
Communications Equipment and Electronic Components	55	53	53	53	53	54	55	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	329	320	321	320	314	319	327	
Communications Equipment and Electronic Components	120	125	135	143	151	160	173	
Crude Petroleum	94	92	92	91	98	81	85	
Wholesale Trade	32	31	32	32	32	32	34	
Petroleum Refining Excluding Fuel Oil	28	28	27	28	26	26	27	

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	Rounded to M	Rounded to Millions of 1999 dollars	dollars					1
	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	8,089	7,758	7,723	7,680	7,581	7,657	7,858	
Indirect Defense Purchases Resulting from Direct Purchases	6,210	5,962	5,961	6,003	5,909	6,060	6,298	
Indirect Defense Purchases Resulting from Direct Pay	2,554	2,454	2,371	2,331	2,289	2,254	2,282	
Total Nondefense Expenditures	859,585	868,396	880,028	896,752	908,431	921,690	935,548	
Total Output	876,440	884,572	896,085	912,767	924,212	937,663	951,988	
Government Compensation: Pay, Military + Civilian	1,900	1,855	1,834	1,823	1,807	1,794	1,814	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	1,115	1,063	1,048	1,031	1,039	1,059	1,099	
Nerospace Aerospace	1,067	766	1,015	1,033	1,075	1,109	1,147	
Communications Equipment and Electronic Components	696	942	933	902	888	893	918	
Instruments	772	738	748	768	786	800	838	
Metal Products	422	407	421	432	4	446	453	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	805	176	783	794	801	837	885	
Finance and Insurance	730	402	712	726	705	730	765	
Wholesale Trade	555	530	529	532	524	533	552	
Communications Equipment and Electronic Components	411	402	406	414	427	44	467	
Communications Services	320	309	307	307	304	314	336	

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North Carolina	Rounded to Millions of 1999 dollars

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	6,335	6,150	6,080	6,042	5,927	5,930	5,976	
Indirect Defense Purchases Resulting from Direct Purchases	2,852	2,732	2,737	2,766	2,703	2,785	2,891	
Indirect Defense Purchases Resulting from Direct Pay	2,349	2,277	2,224	2,213	2,194	2,183	2,233	
Total Nondefense Expenditures	379,744	385,351	393,787	405,001	413,538	422,446	431,808	
Total Output	391,283	396,513	404,831	416,025	424,365	433,347	442,912	
Government Compensation: Pay, Military + Civilian	4,564	4,487	4,458	4,445	4,425	4,408	4,429	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Construction	285	268	259	255	257	266	275	
Research Labs, Computer and Engineering Services	244	234	228	221	218	216	216	
Instruments	104	101	100	86	86	86	100	
Wholesale Trade	105	100	86	94	8	87	88	
Electric Industrial Appliances and Distribution Equipment	109	94	98	82	79	11	75	
Indirect Defense Purchases Resulting from Direct Purchases								
Wholesale Trade	218	211	214	218	217	223	232	
Communications Equipment and Electronic Components	195	190	190	190	194	198	209	
Textiles (Except Knitting)	194	175	172	173	151	161	165	
Research Labs, Computer and Engineering Services	176	171	170	170	168	170	174	
Other Chemicals	149	143	145	146	145	149	156	

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North Dakota Summary	Rounded to Millions of 1999 dollars

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG/	AGGREGATE MEASURES	RES					ı
Total Direct Expenditures (Purchases and Pay)	703	691	683	682	683	400	753	
Indirect Defense Purchases Resulting from Direct Purchases	223	214	213	214	208	210	218	
Indirect Defense Purchases Resulting from Direct Pay	246	237	231	230	227	226	230	
Total Nondefense Expenditures	28,379	28,787	29,258	29,961	30,455	30,997	31,525	
Total Output	29,551	29,930	30,385	31,087	31,573	32,143	32,726	
Government Compensation: Pay, Military + Civilian	463	454	450	449	447	446	448	
LARGE	GEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)			٠					
Communications Services	69	73	72	73	84	108	148	
Construction	65	62	09	59	59	59	59	
Electric Utilities	26	26	26	26	27	26	27	
Trucking and Highway Passenger Transit	13	12	12	12	∞	10	11	
Apparel and Household Textiles	13	11	11	11	6	10	10	
Indirect Defense Purchases Resulting from Direct Purchases								
Electric Utilities	35	34	35	35	35	36	37	
Crude Petroleum	27	26	25	25	23	22	23	
Wholesale Trade	24	23	23	23	23	24	24	
Gas Utilities	16	16	16	16	15	15	16	
Communications Services	12	12	12	12	12	12	13	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	9/9′9	6,367	6,304	6,287	6,222	6,205	6,338	
Indirect Defense Purchases Resulting from Direct Purchases	5,360	5,121	5,122	5,150	5,084	5,178	5,348	
Indirect Defense Purchases Resulting from Direct Pay	2,150	2,076	2,018	1,997	1,971	1,952	1,986	
Total Nondefense Expenditures	618,456	623,123	634,375	650,727	661,744	673,929	685,984	
Total Output	632,643	636,689	647,819	664,162	675,022	687,265	759,669	
Government Compensation: Pay, Military + Civilian	2,862	2,763	2,711	2,683	2,639	2,604	2,661	
LARGES	LARGEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	983	949	934	806	901	868	912	
Aerospace 11	988	829	845	865	903	931	964	
Other Transportation Equipment	338	301	295	326	. 357	370	375	
Trucking and Highway Passenger Transit	174	165	161	166	110	138	141	
Other Nonelectrical Machinery	149	.146	152	156	158	159	160	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	400	692	269	700	695	710	734	
Ferrous Metals	443	414	410	411	410	413	416	
Metal Products	418	400	404	413	416	426	439	
Wholesale Trade	343	328	328	332	327	332	342	
Other Chemicals	271	260	261	262	259	265	277	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	3,382	3,279	3,239	3,225	3,179	3,161	3,207	
Indirect Defense Purchases Resulting from Direct Purchases	1,866	1,798	1,791	1,799	1,745	1,758	1,830	
Indirect Defense Purchases Resulting from Direct Pay	1,126	1,088	1,060	1,052	1,041	1,033	1,054	
Total Nondefense Expenditures	165,237	167,850	170,441	174,269	177,177	180,346	183,508	
Total Output	171,611	174,016	176,532	180,347	183,142	186,299	189,599	
Government Compensation: Pay, Military + Civilian	2,462	2,399	2,370	2,355	2,332	2,314	2,342	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)				٠				
Research Labs, Computer and Engineering Services	218	213	210	206	206	204	206	
Construction	177	168	162	159	159	160	160	
Aerospace	154	145	148	152	160	164	170	
Petroleum Refining Excluding Fuel Oil	19	64	63	64	9	56	58	
Automobile Repairs	09	57	26	56	43	50	51	
Indirect Defense Purchases Resulting from Direct Purchases								
Crude Petroleum	345	333	325	321	300	284	302	
Automobile Repairs	252	244	244	248	236	247	256	
Research Labs, Computer and Engineering Services	158	155	156	159	159	161	166	
Petroleum Refining Excluding Fuel Oil	129	124	122	122	113	109	113	
Communications Equipment and Electronic Components	79	92	75	75	9/	78	82	
Communications Equipment and Electronic Components	79	92	75	75	76 76	78	-	82

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	747	725	717	712	703	<i>L</i> 69	700	
Indirect Defense Purchases Resulting from Direct Purchases	1,105	1,076	1,094	1,113	1,111	1,147	1,201	
Indirect Defense Purchases Resulting from Direct Pay	563	547	532	528	522	518	529	
Total Nondefense Expenditures	159,773	161,892	165,232	169,623	172,701	176,147	179,714	
Total Output	162,190	164,243	167,578	171,978	175,039	178,512	182,146	
Government Compensation: Pay, Military + Civilian	540	533	531	529	526	523	525	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Construction	35	31	29	29	28	29	28	
Research Labs, Computer and Engineering Services	26	24	24	23	22	22	22	
Computers	22	21	20	19	19	18	18	
Instruments	16	16	16	16	17	17	18	
Communications Equipment and Electronic Components	12	12	11	11	111	111	111	
Indirect Defense Purchases Resulting from Direct Purchases								
Communications Equipment and Electronic Components	257	262	278	290	304	321	345	
Wholesale Trade	103	66	100	102	101	104	108	
Finance and Insurance	69	99	99	99	64	99	89	
Other Nonferrous Metals	63	09	61	62	64	99	89	
Lumber	49	4	45	45	4	4	45	

ımmary	1999 dollars
Pennsylvania Su	counded to Millions of

	TO DOMINON	Canada to intitudis of 1757 dollars	Tollars					
	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					I
Total Direct Expenditures (Purchases and Pay)	6,642	6,348	6,274	6,183	6,068	5,995	6,118	
Indirect Defense Purchases Resulting from Direct Purchases	5,043	4,825	4,817	4,843	4,756	4,847	5,009	
Indirect Defense Purchases Resulting from Direct Pay	2,180	2,108	2,050	2,029	2,006	1,988	2,026	
Total Nondefense Expenditures	610,774	616,695	625,818	639,057	648,523	658,639	669,132	
Total Output	624,639	629,977	638,959	652,113	661,353	671,470	682,285	
Government Compensation: Pay, Military + Civilian	2,760	2,662	2,611	2,583	2,538	2,502	2,559	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
	892	856	839	811	798	794	802	
Metal Products	864	830	850	864	876	883	893	
	285	265	272	281	297	308	320	
Fuel Oil	226	216	201	155	134	79	11	
Medical Instruments and Supplies	218	210	213	211	201	206	209	
Indirect Defense Purchases Resulting from Direct Purchases		٠						
Research Labs, Computer and Engineering Services	644	625	627	625	615	627	645	
Ferrous Metals	425	397	393	393	392	394	396	
Wholesale Trade	333	320	321	325	322	329	341	
Petroleum Refining Excluding Fuel Oil	309	295	288	284	262	250	259	
Communications Equipment and Electronic Components	296	292	298	307	319	331	350	

Khode Island Summary	nded to Millions of 1999 dollars
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		NOULUCU IO IN	NOUNCE TO IMPRIOUS OF 1999 DOUBLE	COLEGES					
		1997	1998	1999	2000	2001	2002	2003	
		AGGREG,	AGGREGATE MEASURES	ES				-	
	Total Direct Expenditures (Purchases and Pay)	1,653	1,595	1,587	1,568	1,544	1,544	1,575	
	Indirect Defense Purchases Resulting from Direct Purchases	459	442	446	454	455	471	495	
	Indirect Defense Purchases Resulting from Direct Pay	272	263	257	255	252	251	256	
	Total Nondefense Expenditures	47,281	47,966	48,762	49,862	50,621	51,437	52,251	
	Total Output	49,664	50,265	51,050	52,138	52,872	53,701	54,577	
	Government Compensation: Pay, Military + Civilian	518	505	464	490	483	478	486	
	LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS				
	Total Direct Expenditures (Purchases and Pay)								
	Medical Instruments and Supplies	496	483	493	489	483	487	493	
110	Research Labs, Computer and Engineering Services	259	250	248	249	256	262	276	
5	Instruments	105	100	101	103	105	106	111	
	Communications Services	74	89	63	52	48	36	35	
	Construction	46	4	43	42	42	42	42	
	Indirect Defense Purchases Resulting from Direct Purchases								
	Research Labs, Computer and Engineering Services	187	182	185	191	197	207	222	
	Other Nonferrous Metals	30	28	28	29	29	30	31	
	Wholesale Trade	26	25	25	25	25	25	26	
	Finance and Insurance	21	20	20	20	50	20	21	
	Metal Products	20	19	19	19	20	20	21	

South Carolina Summary Rounded to Millions of 1999 dollars

	T OF TOTAL	arcea w minimum of 1227 condition	COLIGIES					
	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	4,023	3,899	3,854	3,845	3,677	3,716	3,750	
Indirect Defense Purchases Resulting from Direct Purchases	1,577	1,506	1,505	1,517	1,486	1,530	1,587	
Indirect Defense Purchases Resulting from Direct Pay	1,221	1,182	1,154	1,147	1,136	1,129	1,153	
Total Nondefense Expenditures	191,602	194,512	198,453	203,503	207,700	211,809	216,257	
Total Output	198,424	201,100	204,967	210,011	214,000	218,184	222,749	
Government Compensation: Pay, Military + Civilian	2,469	2,429	2,412	2,405	2,391	2,380	2,393	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Railroads	365	346	338	347	229	287	293	
Research Labs, Computer and Engineering Services	242	230	222	215	212	211	211	
Construction	181	171	165	162	162	162	162	
Finance and Insurance	91	88	87	88	85	78	81	
Aerospace	74	89	71	75	81	85	68	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	175	168	166	166	164	166	170	
Other Chemicals	171	163	163	164	163	167	175	
Textiles (Except Knitting)	140	126	124	124	108	115	119	
Wholesale Trade	79	92	77	78	11	79	81	
Communications Equipment and Electronic Components	77	75	11	78	82	98	92	

Summary	Rounded to Millions of 1000 dollars
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	1997	1998	1999	2000	2001	2002	2003	1 1
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	760	719	754	786	736	646	647	
Indirect Defense Purchases Resulting from Direct Purchases	1,974	1,933	2,099	2,201	2,108	1,777	1,820	
Indirect Defense Purchases Resulting from Direct Pay	180	175	170	169	167	165	169	
Total Nondefense Expenditures	32,092	32,562	33,252	34,238	34,932	35,677	36,450	
Total Output	35,007	35,388	36,275	37,393	37,943	38,266	39,086	
Government Compensation: Pay, Military + Civilian	278	274	272	271	270	269	270	
LARGE	GEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Real Estate	345	316	356	390	350	262	260	
Construction	26	25	24	24	24	24	24	
Medical Instruments and Supplies	19	17	16	16	12	14	14	
Research Labs, Computer and Engineering Services	17	16	15	15	15	15	15	
Communications Equipment and Electronic Components	13	12	12	12	12	13	13	
Indirect Defense Purchases Resulting from Direct Purchases								
Real Estate	1,684	1,655	1,820	1,921	1,832	1,502	1,535	
Communications Equipment and Electronic Components	4	42	43	4	4	49	53	
Automobile Repairs	33	30	29	25	25	20	19	
Wholesale Trade	22	21	21	22	21	22	23	
Noncompetitive Imports	18	18	19	20	19	16	17	

ımary	1999 dollars
Tennessee Sun	Rounded to Millions of

1997 AGGREG	1998	1999	2000	2001	2002	2003
AGGREG						
3,160	AGGREGATE MEASURES	RES				
	3,038	2,998	2,983	2,758	2,832	2,856
2,031	1,946	1,950	1,966	1,927	1,979	2,049
986	926	932	925	916	606	928
271,537	275,063	281,572	290,360	296,456	303,147	309,695
277,720	281,009	287,458	296,240	302,064	308,875	315,536
1,184	1,172	1,167	1,164	1,158	1,153	1,157
LARGEST PURCHASI	ES BY INDUS	TRIAL SECT	ORS			
761	726	716	730	581	959	<i>L</i> 99
414	394	385	367	356	353	353
214	193	188	189	145	163	167
107	102	102	101	100	86	26
98	83	83	83	82	08	81
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299	288	287	283	274	279	284
163	157	158	160	159	162	168
159	151	151	152	150	153	160
138	133	135	139	140	144	148
106	101	102	104	106	109	112
Indirect Defense Purchases Resulting from Direct Pay Indirect Defense Purchases Resulting from Direct Pay Total Nondefense Expenditures Total Output Government Compensation: Pay, Military + Civilian Total Direct Expenditures (Purchases and Pay) Air Transportation Research Labs, Computer and Engineering Services Apparel and Household Textiles Metal Products Other Chemicals Research Labs, Computer and Engineering Services Besearch Labs, Computer and Engineering Services Research Labs, Computer and Engineering Services	3,07 1,99 275,00 281,00 1,17 1,17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	338 346 356 356 363 309 394 1102 83 1151 1151	38 2,998 46 1,950 56 932 63 281,572 69 287,458 72 1,167 26 716 94 385 93 188 02 102 83 83 83 83 83 83 83 83 83 83 83 83 83 83 83 83	2,998 2,5 1,950 1,5 932 932 932 81,572 290,3 87,458 296,5 1,167 1,1 716 385 188 102 83 102 83 158 151 151	2,983 2,7 1,966 1,9 925 925 9 90,360 296,4 36,240 302,0 1,164 1,1 1,164 1,1 189 101 83 283 160 152 139 104	2,983 2,758 2,8 1,966 1,927 1,1 925 916 9 90,360 296,456 303,1 96,240 302,064 308,8 1,164 1,158 1,1 136 145 145 101 100 100 83 82 274 160 159 150 152 150 140 104 106 106

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11		1997	1998	1999	2000	2001	2002	2003	
		AGGREG	AGGREGATE MEASURES	JRES					
•	Total Direct Expenditures (Purchases and Pay)	20,440	19,742	19,599	19,558	19,278	19,277	19,627	
_	Indirect Defense Purchases Resulting from Direct Purchases	11,637	11,278	11,320	11,404	11,157	11,327	11,841	
	Indirect Defense Purchases Resulting from Direct Pay	5,178	5,010	4,886	4,853	4,802	4,768	4,868	
•	Total Nondefense Expenditures	974,809	992,828	1,011,138	1,034,656	1,052,707	1,071,866	1,092,029	
•	Total Output	1,012,065	1,028,859	1,046,946	1,070,473	1,087,946	1,107,239	1,128,366	
	Government Compensation: Pay, Military + Civilian	9,254	9,082	6,007	8,970	8,910	8,861	8,926	
	LARGI	ST PURCHASI	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	rors				
•	Total Direct Expenditures (Purchases and Pay)								
	Aerospace	3,135	2,950	2,997	3,035	3,137	3,225	3,334	
120	Research Labs, Computer and Engineering Services	2,128	2,039	2,006	1,955	1,947	1,958	2,006	
ı	Petroleum Refining Excluding Fuel Oil	859	828	816	828	780	722	.092	
	Fuel Oil	191	738	T2T	738	694	640	699	
	Construction	755	711	684	672	029	674	673	
	Indirect Defense Purchases Resulting from Direct Purchases								
	Crude Petroleum	1,578	1,530	1,502	1,484	1,391	1,320	1,404	
	Research Labs, Computer and Engineering Services	1,536	1,488	1,498	1,506	1,501	1,547	1,614	
	Petroleum Refining Excluding Fuel Oil	1,072	1,036	1,024	1,019	945	200	943	
	Communications Equipment and Electronic Components	951	962	1,010	1,051	1,095	1,149	1,226	
	Wholesale Trade	545	524	226	533	527	537	256	

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	Rounded to M	Rounded to Millions of 1999 dollars	dollars					
	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	2,015	1,918	1,875	1,854	1,818	1,799	1,836	
Indirect Defense Purchases Resulting from Direct Purchases	1,109	1,069	1,074	1,081	1,070	1,095	1,136	
Indirect Defense Purchases Resulting from Direct Pay	564	546	531	527	521	517	528	
Total Nondefense Expenditures	115,250	116,962	119,197	121,782	123,936	126,239	128,539	
Total Output	118,939	120,495	122,678	125,245	127,346	129,651	132,039	
Government Compensation: Pay, Military + Civilian	1,119	1,079	1,059	1,048	1,030	1,017	1,039	
LARGEST	-	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	291	273	263	256	255	257	262	
1 Metalworking Machinery	113	94	98	82	79	11	9/	
Construction	82	11	74	73	73	73	73	
Petroleum Refining Excluding Fuel Oil	63	9	59	9	57	52	55	
Fuel Oil	58	55	55	55	52	48	20	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	210	199	196	197	197	203	211	
Aerospace	142	140	145	143	144	148	152	
Communications Equipment and Electronic Components	82	82	98	68	92	95	100	
Wholesale Trade	58	56	56	57	26	58	09	
Petroleum Refining Excluding Fuel Oil	55	53	52	52	49	47	49	

_	Rounded to Millions of 1999 dollars
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1997	1998	1999	2000	2001	7007	2003	- 1
AGGREG/	TE MEASU	RES					
189	184	184	185	185	186	190	
264	261	268	275	279	289	305	
114	110	107	107	106	105	108	
27,167	27,686	28,413	29,296	29,961	30,647	31,368	
27,734	28,241	28,973	29,863	30,531	31,228	31,970	
100	66	86	86	16	96	76	
T PURCHASES	S BY INDUST	RIAL SECT	RS				
24	24	25	27	27	28	29	
21	20	20	21	21	22	22	
20	19	19	18	17	17	17	
4	4	4	4	4	4	S	
4	4	4	3	3	3	3	
101	103	110	116	121	127	135	
18	17	18	18	18	19	19	
15	15	15	15	15	15	16	
15	14	14	14	13	14	14	
11	10	10	10	10	10	10	
TPU	AGGREGA 189 264 114 27,167 27,734 100 RCHASES 4 4 4 4 11 101 115 115	AGGREGATE MEASUJ 189 184 264 261 114 110 27,167 27,686 27,734 28,241 100 99 RCHASES BY INDUST 24 24 21 20 20 19 4 4 4 4 4 4 16 101 103 18 17 15 15	AGGREGATE MEASURES 189 184 184 264 261 268 114 110 107 27,167 27,686 28,413 27,734 28,241 28,973 100 99 98 CHASES BY INDUSTRIAL SECTY 21 20 20 20 19 19 4 4 4 4 4 4 4 4 4 14 101 103 110 118 17 18 11 101 101 11 103 110 11 103 111 11 10 10 101 11 101 101 11 101 101 11 101 10	EGATE MEASURES 184 184 1 261 268 2 2110 107 1 27,686 28,413 29,3 28,241 28,973 29,8 99 98 SES BY INDUSTRIAL SECTORS 20 20 20 19 19 19 4 4 4 4 4 4 14 110 11 111 118 11 117 118 119 119 111 119 119 119 1103 1110 11 117 118 119	2000 185 275 107 29,296 29,863 30,9863 30,9863 31,18 4 4 3 116 116 117 118 119 119 110	2000 2001 185 185 275 279 107 106 29,296 29,961 29,863 30,531 98 97 27 27 21 21 18 17 4 4 3 3 116 121 118 18 11 15 119 115 110 110	2000 2001 2002 185 185 186 275 279 289 107 106 105 29,296 29,961 30,647 29,863 30,531 31,228 98 97 96 21 21 22 18 17 17 4 4 4 4 3 3 3 116 121 127 18 18 19 15 14 13 10 10

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	Kounded to M	Kounded to Millions of 1999 dollars	dollars					
	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	24,535	23,743	23,388	23,207	22,487	22,651	23,144	
Indirect Defense Purchases Resulting from Direct Purchases	6,785	6,571	6,592	6,647	6,448	6,679	6,916	
Indirect Defense Purchases Resulting from Direct Pay	4,967	4,806	4,689	4,662	4,615	4,587	4,686	
Total Nondefense Expenditures	497,200	507,058	518,139	530,772	541,168	550,796	561,045	
Total Output	533,484	542,174	552,805	565,284	574,714	584,709	595,786	
Government Compensation: Pay, Military + Civilian	13,095	12,725	12,548	12,456	12,313	12,202	12,381	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	4,623	4,488	4,413	4,311	4,288	4,259	4,314	
Non-Automotive Repair Services, Hotels and Lodging	1,104	1,016	994	1,014	889	849	865	
Ships and Boats	951	919	606	937	939	<i>L</i> 96	981	
Communications Services	762	200	751	758	785	837	21.6	
Computers	280	570	265	260	561	552	557	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	3,337	3,274	3,295	3,320	3,306	3,366	3,472	
Non-Automotive Repair Services, Hotels and Lodging	1,007	941	937	950	814	910	944	
Real Estate	240	231	223	219	215	233	243	
Communications Services	160	157	158	160	160	167	181	
Wholesale Trade	159	153	154	157	156	159	165	

Summary	1999 dollars
Washington Su	Rounded to Millions of

	NonIndea to Iv	Acquided to Millions of 1999 dollars	dollars					
	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	7,180	6,930	6,840	6,797	6,693	899'9	6,779	
Indirect Defense Purchases Resulting from Direct Purchases	3,096	3,033	3,090	3,131	3,121	3,195	3,324	
Indirect Defense Purchases Resulting from Direct Pay	1,991	1,928	1,882	1,870	1,850	1,838	1,876	
Total Nondefense Expenditures	293,637	298,424	304,522	311,615	317,137	322,735	328,763	
Total Output	305,914	310,324	316,341	323,422	328,810	334,445	340,753	
Government Compensation: Pay, Military + Civilian	4,286	4,190	4,146	4,124	4,088	4,060	4,102	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS		•		
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	616	290	579	571	577	583	601	
Aerospace Aerospace	452	424	432	438	454	469	485	
Communications Equipment and Electronic Components	309	299	296	287	284	288	299	
Construction	251	234	223	219	218	220	219	
Petroleum Refining Excluding Fuel Oil	240	231	227	229	215	197	206	
Indirect Defense Purchases Resulting from Direct Purchases								
Aerospace	1,001	1,013	1,066	1,089	1,111	1,139	1,184	
Research Labs, Computer and Engineering Services	445	430	433	440	445	461	484	
Wholesale Trade	174	168	169	172	171	175	182	
Petroleum Refining Excluding Fuel Oil	116	113	112	112	105	101	106	
Other Nonferrous Metals	114	107	108	110	112	115	119	

Summary	Pounded to Millions of 1999 dollars
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	1997	1998	1999	2000	2001	2002	2003	1 11
	AGGREG/	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	431	414	406	403	393	393	395	
Indirect Defense Purchases Resulting from Direct Purchases	612	585	583	586	576	585	604	
Indirect Defense Purchases Resulting from Direct Pay	271	261	254	251	248	245	250	
Total Nondefense Expenditures	75,230	76,131	77,328	79,034	80,309	81,680	83,121	
Total Output	76,544	77,391	78,571	80,274	81,526	82,902	84,370	
Government Compensation: Pay, Military + Civilian	273	269	267	266	264	262	264	
LARG	RGEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Construction	69	63	59	58	57	28	28	
Medical Instruments and Supplies	22	20	19	19	14	17	17	
	15	15	14	14	13	13	13	
Wholesale Trade	12	11	11	. 11	11	10	10	
Aerospace	10	6	∞	∞	∞	∞	∞	
Indirect Defense Purchases Resulting from Direct Purchases								
Coal Mining	84	80	80	80	80	80	81	
Other Chemicals	80	92	75	75	74	75	78	
Ferrous Metals	73	89	89	69	69	71	71	
Other Nonferrous Metals	41	39	39	4	41	43	4	
Wholesale Trade	35	33	33	34	33	34	35	

Summary	
Wisconsin (

Rounded to Millions of 1999 dollars

1997 1998	AGGREGATE MEASURES		Indirect Defense Purchases Resulting from Direct Purchases 1,928 1,844		289,548 292,149	293,354 295,795	Government Compensation: Pay, Military + Civilian 468 460	LARGEST PURCHASES BY INDUSTRIAL SECTORS	Total Direct Expenditures (Purchases and Pay)	80 78		63 56		39 38	Indirect Defense Purchases Resulting from Direct Purchases	183 175	158 152	141 134	121 116	
1999	URES	1,044	1,844	731	297,419	301,039	456	STRIAL SECT		79	61	61	46	38		177	153	133	116	
2000		1,036	1,857	727	305,211	308,833	454	ORS		80	09	59	45	38		180	155	131	116	
2001		1,007	1,827	722	310,510	314,068	450			81	59	54	4	37		181	154	128	112	
2002		886	1,864	718	316,110	319,682	447			81	59	43	45	36		185	157	129	115	
2003		985	1.925	733	321,798	325,444	451			81	59	31	45	37		190	164	134	120	i

Wyoming Summary	Rounded to Millions of 1999 dollars
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	TANGET OF TANKE	TOTAL TO COMPANY			,		
	1997	1998	1999	2000	2001	2002	2003
	AGGREGA	AGGREGATE MEASURES	tes				
Total Direct Exnenditures (Purchases and Pav)	343	336	332	332	327	323	327
Indirect Defense Purchases Resulting from Direct Purchases	267	257	255	255	244	243	253
Indirect Defense Purchases Resulting from Direct Pay	149	145	141	140	138	137	140
Total Nondefense Expenditures	23,462	23,883	24,194	24,704	25,066	25,486	25,921
Total Output	24,222	24,620	24,922	25,431	25,776	26,189	26,641
Government Compensation: Pay, Military + Civilian	249	245	244	243	242	241	242
LARGEST	GEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	RIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Petroleum Refining Excluding Fuel Oil	24	23	23	23	22	20	21
Construction	24	23	22	22	22	22	22
	22	21	21	21	20	18	19
Research Labs. Computer and Engineering Services	9	5	5	5	5	5	5
Electric Utilities	ĸ	S	5	5	5	5	S
Indirect Defense Purchases Resulting from Direct Purchases							
Crude Petroleum	73	70	69	89	64	61	65
Detroleum Refining Excluding Fuel Oil	43	41	41	41	38	37	38
Cost Mining	21	21	21	21	21	21	22
Wholesale Trade	10	6	6	6	6	10	10
TIONOSAIC TIMO	o	œ	œ	œ	00	∞	œ
Nonmetallic Mining	n	5	٥	>	į	,	

s Summary	of 1999 dollars
Entire United States	Rounded to Millions of

	1997	1998	1999	2000	2001	2002	2003
	AGGRE	AGGREGATE MEASURES	URES				
Total Direct Expenditures (Purchases and Pay)	366 039	256 230	200 4 30		0	1	
Indiana Defends Defends	600,000	270,575	707,407	223,370	249,897	251,389	256,970
Invited Defense Purchases Resulting from Direct Purchases	130,846	126,071	126,452	127,362	125,324	128,058	133.087
Indirect Defense Purchases Resulting from Direct Pay	67,154	64,957	63,286	62,784	62.097	61.627	62.863
Total Nondefense Expenditures	13,704,205	13,890,347	14,148,625	14,492,186	14.744.684	15.013.977	15.293.739
Total Output	14,168,243	14,337,748	14,592,571	14,935,702	15,182,003	15,455,051	15,746,658
Government Compensation: Pay, Military + Civilian	112,874	110,276	109,073	108,454	107,459	106,671	107,835
LARG	GEST PURCHASES BY INDUSTRIAL SECTORS	ES BY INDU	STRIAL SEC	FORS			
Total Direct Expenditures (Purchases and Pay)							,
Research Labs, Computer and Engineering Services	35,444	34,053	33,468	32,661	32,536	32,633	33.329
Aerospace	31,613	29,755	30,197	30,455	31,370	32,259	33.317
Communications Equipment and Electronic Components	7,921	7,680	7,607	7,457	7,458	7,518	7.766
Construction	8,007	7,496	7,188	7,056	7,033	7,093	7,082
onips and Boats	7,371	7,119	7,057	7,355	7,384	7,645	7,758
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	25,587	24,843	24,992	25,157	25.087	25.787	26 824
Communications Equipment and Electronic Components	7,501	7,417	7,601	7,761	8,013	8.326	8.834
Wholesale Trade	7,693	7,395	7,431	7,528	7,458	7,616	7.901
Aerospace	6,035	5,914	6,110	6,172	6,254	6,370	6.563
Finance and Insurance	5,630	5,425	5,430	5,468	5,277	5,437	5,661

APPENDIX

National

		State-Level	
Ind #	Industry Title	Ind#	Industrial Sector Title
1	Dairy Farm Products	1	Agriculture Forester, and Fish at
2	Poultry and Eggs	1	Agriculture, Forestry, and Fisheries
3	Meat Animals and Other Livestock		
4	Cotton		
5	Grains		
6	Tobacco		
7	Fruit, Vegetables, and Other Crops		
8	Forestry Products		
9	Fishery Products		
10	Agriculture, Forestry, and Fishery Services		
11	Iron Ores	2	Iron Ores
12	Copper Ore	3	Nonferrous Metals Mining
13	Other Nonferrous Ores		Nomerous Metals Milling
14	Coal Mining	4	Coal Mining
15	Natural Gas Extraction	5	Natural Gas
16	Crude Oil Extraction	6	Crude Oil
17	Stone and Clay Quarrying and Mining	7	Nonmetallic Mining
18	Chemical and Fertilizer Minerals Mining	•	Nomiceanic Minnig
19	New Construction	8	Construction
20	Maintenance Construction		
21	Guided Missiles and Space Vehicles	44	Aerospace
22	Ammunition, Except Small Arms	- 28	Metal Products
23	Tanks and Tank Components	46	Other Transportation Equipment
24	Small Arms	28	Matal Day Lord
25	Small Arms Ammunition	20	Metal Products
26	Other Ordnance and Accessories		
27	Meat Packing Plants, Sausage and Other Prepared Meats	9	Food and Takes
28	Poultry Slaughtering and Processing	J	Food and Tobacco
29	Dairy Products, Except Fluid Milk		
30	Fluid Milk		
31	Fish and Seafoods		
32	Preserved Fruits and Vegetables, Frozen Bakery Products		
33	Flour, Cereals, and Other Grain Mill Products		
34	Prepared Animal Feeds		
35	Rice Milling		
36	Wet Corn Milling		
37	Bakery Products		
38	Sugar		
39	Confectionery, Chocolate Products, and Roasted Nuts		
40	Beer, Malt Beverages, and Malt		•
41	Wines, Brandy, and Brandy Spirits		
42	Distilled and Blended Liquors		
43	Soft Drinks and Flavorings		
44	Vegetable Oil Mills		

National

Ind#	Industry Title	<u>Ind #</u>	Industrial Sector Title
45	Animal and Marine Fats and Oils	9	Food and Tobacco (cont.)
46	Shortening, Table Oils, and Edible Fats		
47	Roasted Coffee		
48	Miscellaneous Food Preparations		
49	Cigarettes		
50	Cigars		
51	Chewing and Smoking Tobacco and Snuff		
52	Tobacco Stemming and Redrying		
53	Broadwoven Fabric Mills	10	Textiles (Except Knitting)
54	Narrow Fabric Mills		
55	Yarn and Thread Mills, Textile Finishers		
56	Carpets and Rugs		
57	Miscellaneous Textile Goods		
58	Knitting Mills	11	Knitting
59	Apparel	12	Apparel and Household Textiles
60	Household Textile Products		
61	Miscellaneous Fabricated Textile Products		•
62	Logging Camps and Contractors	22	Lumber
63	Sawmills and Planing Mills		
64	Millwork and Wood Kitchen Cabinets		
65	Veneer and Plywood		
66	Structural Wood Members, n.e.c.		
67	Prefabricated Wood Buildings and Components		
68 69	Wood Preserving Wood Pallets and Skids		
70	Wood Containers		
71	Particleboard and Wood Products, n.e.c.	13	Paper
72	Household Furniture	23	Furniture
73	Office Furniture		
74	Public Building and Related Furniture		
75	Partitions and Fixtures		
76	Furniture and Fixtures, n.e.c.		
77	Pulp Mills	13	Paper
78 79	Paper Mills, Including Building Paper Paperboard Mills		•
80	Bags, Except Textile Bags		
81	Paperboard Containers and Boxes		
82	Paper Coating and Glazing, Die Cut Paper		
83	Envelopes and Stationery		
84	Converted Paper Products, n.e.c.		
85	Sanitary Paper Products		
86	Newspaper Publishing and Printing	14	Printing and Publishing
87	Periodical Publishing and Printing		
88	Book Publishing and Printing		
89	Miscellaneous Publishing		
90	Commercial Printing		
91	Greeting Card Publishing		
92	Printing Trade Services		
93	Blankbooks and Bookbinding Manifold Business Forms		
94	Maintold Dusiness Politis		

National

	_	-	
Ind #	Industry Title	<u>Ind #</u>	Industrial Sector Title
95	Industrial Inorganic Chemicals	16	Other Chemicals
96	Industrial Organic Chemicals		One one one one
97	Gum and Wood Chemicals		
98	Agricultural Chemicals	15	Agricultural Fertilizers
99	Adhesives and Sealants	16	Other Chemicals
100	Explosives		
101	Chemical Preparations, n.e.c.		
102	Plastics Materials and Resins		
103	Synthetic Rubber		
104	Cellulosic Man-Made Fibers		
105	Synthetic Organic Fibers, Except Cellulosic		
106	Drugs	79	Drugo
	-	19	Drugs
107	Soaps and Cleaners	16	Other Chemicals
108	Perfumes, Cosmetics, and Other Toilet Preparations		
109	Paints, Varnishes, and Related Products		
110	Petroleum Refining, Except Fuel Oil	17	Petroleum Refining
111	Fuel Oil	18	Fuel Oil
112	Asphalt Paving and Coatings	17	Petroleum Refining
113	Tires and Inner Tubes	19	Rubber Products
114	Fabricated Rubber Products, n.e.c.	17	Nuobel Floducis
115	Rubber and Plastics Footwear		
116	Rubber and Plastics Hose and Belting		
117	Gaskets, Packing, and Sealing Devices		
118	Miscellaneous Plastic Products	20	Disasis Day Land
		20	Plastic Products
119	Leather Tanning and Finishing	21	Shoes and Leather
120	Boot and Shoe Cut Stock and Findings		
121	Footwear, Except Rubber		
122	Other Leather Goods		
123	Glass and Glass Products, n.e.c.	24	Stone, Clay, and Glass
124	Glass Containers		- const, city, and city
125	Cement, Hydraulic		
126	Structural Clay Products		
127	Pottery and Related Products		
128	Concrete and Concrete Products		
129	Lime		
130	Gypsum Products		
131	Cut Stone and Stone Products		
132	Nonmetallic Mineral Products, n.e.c.		
133	Steel Mills, Blast Furnaces, and Rolling and Finishing Mills	25	Ferrous Metals
134	Iron and Steel Foundries		
135	Iron and Steel Forgings		
136	Miscellaneous Primary Metal Products		
137	Primary Smelting and Refining of Copper	26	Copper

National

Ind#	Industry Title	Ind#	Industrial Sector Title
IIIU#	must y mic		
138 139	Primary Smelting and Refining of Aluminum Lead, Zinc, and Other Primary Nonferrous Metals	27	Other Nonferrous Metals
140	Copper Rolling and Drawing	26	Copper
141	Aluminum Rolling and Drawing	27	Other Nonferrous Metals
142	Other Nonferrous Rolling and Drawing, and Nonferrous Wire		
143	Aluminum Foundries and Castings		·
144	Copper Foundries	26	Copper
145	Nonferrous Castings and Forgings	27	Other Nonferrous Metals
146	Metal Cans	28	Metal Products
147	Metal Shipping Barrels, Drums, Kegs, and Pails		
148	Metal Sanitary Ware and Plumbing Fixtures		
149	Heating Equipment, Except Electrical and Warm Air Furnaces		
150	Fabricated Structural Metal Products		
151	Fabricated Plate Work (Boiler Shops)		
152	Sheet Metal and Other Metal Work		
153	Screw Machine Products, Bolts and Nuts		
154	Automotive Stampings		·
155	Crowns and Closures		
156	Metal Stampings, n.e.c.		
157	Cutlery and Hand Tools		
158	Hardware, n.e.c.		
159	Metal Plating, Polishing, and Coating		
160	Metal Foil and Leaf		
161	Miscellaneous Fabricated Wire Products		
162	Steel Springs, Except Wire		
163	Pipes, Valves, and Pipe Fittings		
164	Fabricated Metal Products, n.e.c.		
165	Steam, Gas, and Hydraulic Turbines	29	Engines and Turbines
166	Internal Combustion Engines, n.e.c.		
167	Farm Machinery and Equipment	30	Agricultural Machinery
168	Garden Tractors and Lawn and Garden Equipment		· ·
169	Construction Machinery and Equipment	31	Construction, Mining, and Oil Field Equipment
170	Mining Machinery and Equipment, Except Oil and Gas	0.	3 , 1
170	Machinery Machinery		
171	Oil and Gas Field Machinery		
172	Elevators and Moving Stairways	34	Other Nonelectrical Machinery
173	Conveyers, Hoists, and Cranes		
174	Industrial Trucks, Tractors, Trailers, and Stackers		
175	Machine Tools, Metal Cutting Types	32	Metalworking Machinery
176	Machine Tools, Metal Forming Types		
177	Special Dies, Jigs, Molds, and Cutting Tools		
178	Power-Driven Hand Tools		
179	Rolling Mill Machinery and Equipment		
180	Metalworking Machinery, n.e.c.		
100	mount of the state		

National

Ind#	Industry Title	Ind#	Industrial Sector Title
181 182 183 184 185 186	Food Products Machinery Textile Machinery Woodworking Machinery Paper Industries Machinery Printing Trades Machinery and Equipment Special Industrial Machinery, n.e.c.	33	Special Industry Machinery
187 188 189 190 191 192 193 194	Pumps and Compressors Ball and Roller Bearings Blowers and Exhaust and Ventilation Fans Industrial Patterns Packaging Machinery and General Industrial Machinery, n.e.c. Mechanical Power Transmission Equipment Industrial Process Furnaces and Ovens Carburetors, Pistons, Piston Rings, and Valves Fluid Power Equipment	34	Other Nonelectrical Machinery
196	Scales and Balances	36	Other Office Equipment
197	Industrial and Commercial Machinery, n.e.c.	34	Other Nonelectrical Machinery
198 199 200	Electronic Computers Computer Peripheral Equipment Calculators and Accounting Machinery	35	Computers
201	Office Machines and Typewriters	36	Other Office Equipment
202 203 204 205 206	Automatic Merchandising Equipment Commercial Laundry, Dry Cleaning, and Pressing Machines Air Conditioning, Heating, and Refrigeration Equipment Measuring and Dispensing Pumps Service Industry Machinery, n.e.c.	37	Service Industry Machinery
207	Instruments to Measure Electricity	39	Electric Industrial Appliances and Distribution
208 209 210 211 212 213	Transformers Switchgear and Switchboard Apparatus Motors and Generators Relays and Industrial Controls Welding and Soldering Equipment Electrical Industrial Apparatus		Equipment
214 215	Major Household Appliances Other Household Appliances	40	Household Appliances
216	Electric Lamps, Light Fixtures, and Wiring	41	Other Electrical Equipment
217 218	Household Audio and Video Equipment Prerecorded Records and Tapes	42	TV Sets, Radios, and Phonographs
219	Telephones, Switchboards, Modems, Faxes, Etc.	38	Communications Equipment and Electronic
	Radio and TV Broadcasting and Communication Equipment Electron Tubes		Components

National

Ind#	Industry Title	Ind#	Industrial Sector Title
222	Semiconductors and Related Devices	38	Communications Equipment and Electronic Components (cont.)
223	Electronic Components, n.e.c.		
224	Storage Batteries	41	Other Electrical Equipment
225	Primary Batteries, Dry and Wet		
226	X-ray and Irradiation Apparatus		
227	Electromedical and Electrotherapeutic Apparatus		
228	Engine Electrical Equipment		
229	Magnetic and Optical Recording Media		
230	Electrical Machinery, Equipment and Supplies, n.e.c.		
231	Truck and Bus Bodies	43	Motor Vehicles
232	Truck Trailers		
233	Motor Vehicles and Passenger Car Bodies		
234	Motor Vehicle Parts and Accessories		
235	Aircraft	44	Aerospace
236	Aircraft and Missile Engines, Propulsion Units and Parts		
237	Aircraft and Missile Parts and Auxiliary Equipment, n.e.c.		
238	Shipbuilding and Repairing	45	Ships and Boats
239	Boat Building and Repairing		
240	Railroad Equipment	46	Other Transportation Equipment
241	Motorcycles, Bicycles, and Parts		
242	Travel Trailers and Campers		
243	Mobile Homes	22	Lumber
244	Motor Homes	43	Motor Vehicles
245	Transportation Equipment, n.e.c.	46	Other Transportation Equipment
246	Search and Navigation Equipment	47	Instruments
247	Laboratory Apparatus and Furniture		
248	Measuring Devices and Environmental Controls		
249	Surgical and Medical Instruments	80	Medical Instruments and Supplies
250	Surgical Appliances and Supplies		
251	Dental Equipment and Supplies		
252	Watches, Clocks, Clockwork Operated Devices and Parts	47	Instruments
253	Laboratory and Optical Instruments		
254	Ophthalmic Goods	81	Ophthalmic Goods
255	Photographic Equipment and Supplies	47	Instruments
256	Jewelry, Precious Metal, Silverware, and Plated Wares	48	Other Manufacturing
257	Musical Instruments		
258	Games, Toys, and Play Vehicles		
259	Sport and Athletic Goods, n.e.c.		
260	Pens, Pencils, and Other Office and Artists' Materials		
261	Costume Jewelry and Notions		

National

Ind#	Industry Title	Ind#	Industrial Sector Title
262	Manufacturing, n.e.c.	48	Other Manufacturing (cont.)
263	Railroads	49	Railroads
264 265	Local and Suburban Passenger Transportation Trucking and Warehousing	50	Trucking and Highway Passenger Transit
266	Water Transportation	51	Water Transportation
267	Airlines	52	Air Transportation
268	Pipelines	53	Pipeline
269	Transportation Services	54	Transportation Services
270 271	Telephone and Telegraph Radio and TV Broadcasting	55	Communications Services
272	Electric Utilities	56	Electric Utilities
273	Natural Gas	57	Gas Utilities
274	Water, Sewer, Steam, and Irrigation Services	58	Water and Sanitation
275	Wholesale Trade	59	Wholesale Trade
276	Retail Trade	60	Retail Trade
277	Eating and Drinking Places	61	Eating and Drinking Places
278	Banking	62	Finance and Insurance
279	Credit Agencies Other Than Banks		
280	Security and Commodity Brokers, Dealers, Exchanges, and Services		
281	Insurance Carriers		
282	Insurance Agents, Brokers, and Services		
283	Owner-Occupied Dwellings	64	Owner-Occupied Housing
284	Real Estate	63	Real Estate
285	Royalties		2000
286	Hotels, Rooming Houses, Camps, and Other Lodging Places	65	Nonautomotive Repair Services, Hotels, and Lodging
287	Personal and Repair Services		Loaging
288	Personnel Supply Services	66	Research Labs, Computer and Engineering Services
289	Computer and Data Processing Services		Services
290	Research Laboratories and Management Consulting		
291	Equipment Rental and Leasing Services		
292	Advertising		
293	Other Business Services		
294	Legal Services		
ムノマ			
295	Engineering and Architectural Services		

National

Ind#	Industry Title	Ind#	Industrial Sector Title
297	Auto Rental and Leasing	67	Automobile Repairs
298	Auto Repair and Services		
299	Motion Pictures	68	Movies and Amusements
300	Video Tape Rental		
301	Amusements and Recreation Services		
302	Private Hospitals	82	Private Hospitals
303	Physicians, Excluding Dentists	83	Physicians
304	Dentists and Miscellaneous Medical Services	84	Other Medical Services
305	Nursing Homes	85	Nursing Homes
306	Education and Libraries	69	Education and Nonprofit Organizations
307	Social Services		
308	Museums, Nonprofits, Research, and Private Education		
309	Membership Organizations		
310	United States Postal Service	70	Federal, State, and Local Government Enterprises
311	Federal Government Enterprises		-
312	State and Local Government Enterprises		
317	Government Industry Compensation	76	Government Industry Compensation

FEEDBACK FORM

<u> </u>	
Did the projections for your industry or state seem to be reason	able?
Are there other published forecasts with which the projections to can be compared?	for your industry or s
can be compared:	
What parts of the projections were most and least useful to you	?
<u>'</u>	LEAST
Projected direct defense purchases for an industry	
Projected indirect defense purchases for an industry	-
Projected direct defense expenditures for a state	
Projected direct defense expenditures for a state Projected indirect defense expenditures for a state	
Projected direct defense expenditures for a state Projected indirect defense expenditures for a state Projected geographic distribution of direct purchases	
Projected direct defense expenditures for a state Projected indirect defense expenditures for a state	

-	City	State	Zip	
-	Address			
(Company			
,	Title			
-	Name			
PTIO				
	Comments on the format of	the tables in this report:		

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